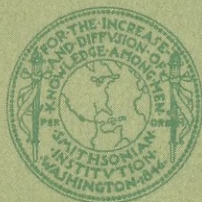


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Leonard P. Schultz
U. S. National Museum
Washington 25, D. C.

United States National Museum

1952 ANNUAL REPORT



The United States National Museum

*Annual Report for the Year Ended
June 30, 1952*



SMITHSONIAN INSTITUTION

UNITED STATES NATIONAL MUSEUM,
UNDER DIRECTION OF THE SMITHSONIAN INSTITUTION,
Washington, D. C., October 15, 1952.

SIR: I have the honor to submit herewith a report upon the present condition of the United States National Museum and upon the work accomplished in its various departments during the fiscal year ended June 30, 1952.

Very respectfully,

REMINGTON KELLOGG,
Director, U. S. National Museum.

DR. A. WETMORE,
Secretary, Smithsonian Institution.

Annual Report of
the Director
United States National Museum

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Introduction

It has been said in a previous report that the function of the United States National Museum is to make available to the Nation the collections entrusted to it for safekeeping. This it does by exhibiting selected items and by organizing the remaining, and vastly larger, part of the collections into a great reference library of material objects. The effective performance of both these functions, it has been pointed out, depends on that essential element in the work of a successful museum, research.

Research—Orderly Inquiry

Research, that is, orderly inquiry aimed at discovering and interpreting facts, is not confined to the laboratory. It is as much a product of one man at his books or before his work table, or simply seated in contemplation under the heavens, as of a team of scores of specialists representing many disciplines and using elaborate equipment and techniques. In the natural and cultural sciences as in other fields (the cultural sciences here may be said to embrace the study of man and his works—with emphasis on the products of his technology and the household arts), this orderly inquiry follows a regular procedure: facts are gathered by observation and planned search; they are evaluated and their relationship determined; where possible, conclusions or basic laws are derived; the results of the investigation are published for the use of others.

By far the greater effort and time in most investigations are spent patiently observing and recording facts. A spectacular achievement crowning years of unpublicized labor may delude some into overlooking this, but no such delusion assails the scientist or historian who spends his life at these tasks. Nonetheless, he accepts the prospect willingly, fully aware that success in research is almost without exception built upon the work of others.

In the National Museum research naturally enough starts with the assembling of the great collections (see tabulation, p. 3). These have been growing for more than a hundred years as a result of the expeditions of its staff, and through extensive deposits made by other Government agencies, private institutions, and individuals. From every part of the world have been gathered cultural objects, plants, animals, and minerals. Deposited in the National Museum as the institution best able to make them available to the Nation as a whole, they create a unique research facility for those who seek a better understanding of man, his culture, and his environment.

Research on an object in the collections makes use of the accompanying documentation that tells where, when, how, and by whom it was collected, with whom it was associated, or by whom and how it was devised. The object is further identified, it is classified and described according to the category to which it belongs, and its scientific or historical significance is, if possible, determined. Information such as this, assembled for a whole group of objects, provides a basis for further theorizing and evaluation, and leads to the establishment of broad general facts, or to the development of fundamental laws or conclusions.

A multitude of skills and disciplines are brought to bear. For example, the research required to arrange, or classify, plants or animals according to taxonomic principles leads the curator, a taxonomist, to draw on all aspects of the biological sciences in establishing valid phylogenetic relationships. The geologist dealing with minerals finds himself at once a chemist and a physicist, or he may combine his knowledge of the earth with a knowledge of botany or zoology. The historian who deals with technology is as much engineer as scholar. The specialist in any of the several fields of anthropology may comprehend and use subject matter in half a dozen overlapping fields.

Traditionally the progress of research has varied from field to field because investigators the world over have quite naturally given first attention to the subject most evident or available, or about which information was in most demand. In the natural sciences relatively more has been done on mammals and birds than on insects, and relatively more on insects and fishes than on marine invertebrates, of which whole groups of creatures remain relatively unknown. A similar situation prevails in the cultural sciences, treatment of which as formal disciplines is of recent origin. Archeology, ethnology, and physical anthropology, for instance, date from the midnineteenth century, while recognition of the history of technology as a division of history is even more recent. Workers in these fields, as well as coping with the task of correlating and organizing existing information, must overcome the many obstacles to the development of complete and reliable new data.

Typical Research Investigations

The scope of research in the natural and cultural sciences covered by the National Museum is best illustrated by examples of recent work in progress or published by its professional staff.

The excavation and study of a large Cheyenne village in South Dakota produced archeological evidence important in interpreting the role of the Indian tribes before and during the period of early historic

SPECIMENS IN THE NATIONAL COLLECTIONS,
JUNE 30, 1952

Department of Anthropology	754, 897
Archeology	516, 571
Ethnology	186, 890
Ceramics	9, 156
Musical instruments	2, 440
Period art and textiles	2, 756
Physical Anthropology	37, 084
Department of Botany	2, 493, 896
Phanerogams	1, 612, 332
Grasses	337, 870
Ferns	197, 868
Cryptogams	345, 826
Department of Engineering and Industries	166, 562
Crafts and Industries	61, 287
Engineering	32, 553
Graphic Arts	49, 848
Medicine and Public Health	22, 874
Department of Geology	3, 936, 817
Mineralogy and Petrology	261, 766
Invertebrate Paleontology and Paleobotany	3, 637, 864
Vertebrate Paleontology	37, 187
Department of History	645, 359
Civil History	37, 114
Military History	28, 941
Naval History	4, 413
Numismatics	62, 763
Philately	512, 128
Department of Zoology	25, 186, 963
Mammals	263, 161
Birds	467, 557
Reptiles	140, 142
Fishes	1, 519, 118
Insects	11, 938, 910
Marine Invertebrates	1, 265, 864
Mollusks	9, 363, 778
Helminths	44, 979
Echinoderms	183, 454
 TOTAL MUSEUM COLLECTIONS	 33, 184, 494

colonization. Field investigations in the lower Amazon Valley are supplying similar evidence on the development and migration of aboriginal cultures in that area. Changes in the material and social culture of the Plains Indians following their acquisition of the European horse were shown in an ethnological monograph recently completed. A report on another study, this one in physical anthropology, demonstrated that the adaptive correlations and ecological rules applying to warm-blooded animals in the wild state also apply to man, who is presumed to be domesticated. Measurable success was attained in tracing and interpreting interacting changes in the material culture of Taiwan (Formosa) as they affected the economic status, family life, and tribal organization of the inhabitants.

Reports were prepared on mammals recently collected in northern Australia, in Arctic America, and in the eastern United States, and also on the evolution of the specialized breeding and guiding habits of the honey guides, an African family of birds. Revisionary studies of two families of fishes were completed for the second volume of a faunal report on the fishes of the Marshall and Marianas Islands, while another study clarified in a noteworthy way the involved synonymy, classification, and relationship of the frogs of southeastern Brazil.

Biologic, taxonomic, and biometric data on the molluscan fauna of the Gulf of Mexico, the deeper waters of which constitute one of the biologically lesser-known areas, were summarized in a monograph of the mollusks of those waters. Studies centering on the classification of insects have accumulated more information on the ladybird beetles, rove beetles, humus beetles, and hairstreak butterflies. The adaptation of copepods of the family Notodelphyidae to a commensal association with tunicates, ascidians, and mollusks, together with other bionomic details, was reviewed in a monographic description of the American forms of this group of marine invertebrates.

In a continuing series of studies of Pacific Island plants, regional revisions were completed for several families occurring in Fiji and adjacent archipelagos. Similar contributions were made to the knowledge of the family Gesneriaceae in Trinidad and Tobago and of the family Bromeliaceae in Colombia, Brazil, and Bolivia. An immediate economic use was found for the latter of these studies, made by a Museum specialist at the request of the Rockefeller Foundation and the Serviço Nacional de Malária, of Brazil, since the bromeliads are air plants that in some instances are water holding and, hence, breeding places for malarial mosquitoes.

Full geological details of the birth and growth of a volcano were presented in a report on the Volcán de Parícutin, in Michoacán, México. Chemical analyses of uranium minerals and studies of their crystal-

line structure added details to the knowledge of that important subject. A paleontological monograph now in preparation on North American lower Middle Ordovician brachiopods is contributing to knowledge of the classification of these invertebrates and their correlation with Ordovician forms. The interpretation of vertebrate fossils collected by field expeditions in the Lower Eocene horizons of the Green River Basin of western Wyoming materially advanced existing knowledge of the correlation of these horizons, which are now recognized as being within the Knight formation.

The mechanical development of the halftone screen, which wedded photography to printing, was traced from its invention in 1852 in a report that noted the influence of the halftone screen on many facets of American life. The historical development of significant machines, devices, and products related to the growth of American technology is being traced in studies in progress; these include the sewing machine, the camera, American plows of the seventeenth and eighteenth centuries, and electric meters. Another study, of secondary woods used in colonial furniture, is providing a new technique for identifying early pieces.

Further documentation of the relics and memorabilia of George Washington and other historically prominent Americans produced factual details of the lives and times of these individuals. Exploration of ancient shipwrecks in the Florida Channel and the recovery of material ranging from cannon barrels to teapots added to the knowledge of ships and trade of the American colonial period and increased the store of early objects precisely dated in use. Progress on the preparation of catalogs and histories of the stamps and coins in the collections is adding measurably to the available information on these subjects.

Research—Professional Responsibility

Each member of the curatorial staff of the National Museum has a professional responsibility to advance through research the knowledge of materials under his charge. This knowledge aids him as curator in classifying and arranging these materials. It aids him in answering the hundreds of questions daily asked by the public and in preparing interesting, meaningful, and informative exhibits for the visitors of all ages who throng the public halls. It enables him, as a scientist or historian carrying out the mission of the Smithsonian Institution, to contribute his share to the broad reservoir of scientific information on which the life of our country so greatly depends.

To the question, Why are these contributions to knowledge so important? the reply must be that all knowledge is useful, though

not always for the same purpose or at the same time. To declare, on the basis of its present usefulness, that one or another area of investigation is the more valuable is to hazard a judgment before all evidence is assembled, as well as to encroach upon a basic freedom—freedom of inquiry. The curator himself may indeed be measured. His diligence, his accuracy, his thoroughness may be assayed. His judgment may perhaps be questioned if he chooses to glean facts after the field has been harvested and his services are needed on the threshing floor. But it must be remembered that again and again in research the grain of fact at first overlooked later has proved worth the whole harvest twentyfold. As a professional devoted to building up detailed mastery of his chosen field, the curator knows where and how to glean further knowledge from it.

Here the meaning of the term “professional” as applied to the museum curator comes into full focus. In the professional disciplines more is involved than the mastery of a body of specialized knowledge. Other areas of human endeavor require such mastery yet are not classed as professions. The essence of professionalism—and many unfortunately ignore this fact—is to be found in the strong sense of high purpose and personal responsibility and the strict intellectual integrity that motivate the individual and guide him in the use of his specialized knowledge. These qualities and his concern for facts, his urge to seek them and to inquire into the nature of things, to do research—all these mark the museum curator and are the measure of his stature. As a professional he is a stronghold of individual initiative and responsibility in a world threatened by the ant heap of collectivism.

The Museum seeks these qualities in its professional staff and, finding them, places on the individual the high responsibility of carrying out necessary research in his particular field. For the most part it is needed only to give him administrative support and to make certain that his efforts do not overlap or duplicate the work of others.

SPECIMENS ACCESSIONED, IDENTIFIED, AND DISTRIBUTED—
FISCAL YEAR 1952

<i>Department</i>	<i>Received in accessions</i>	<i>Submitted for identifi- cation</i>	<i>Identified on request</i>	<i>Exchanged with other institu- tions</i>	<i>Gifts to educa- tional institu- tions</i>	<i>Trans- ferred to other Govern- ment agencies</i>	<i>Loaned for study to in- vestigators and institu- tions</i>
Anthropology .	4, 852	8, 664	8, 664	393	240	0	5, 224
Zoology. . . .	251, 290	37, 233	33, 291	4, 843	2, 195	161	50, 355
Botany	62, 476	17, 250	14, 809	8, 266	388	0	26, 224
Geology. . . .	279, 968	18, 977	18, 966	3, 993	4, 278	0	5, 407
Engineering and Industries. . .	1, 638	939	935	2	4	0	124
History. . . .	7, 130	34, 394	34, 394	2	3	11	19, 356
TOTAL .	607, 354	117, 457	111, 059	17, 499	7, 108	172	106, 690

Serving thus, as the needs of the collections demand and the degree of public support permit, he assures the continuing flow of information, vital to the successful functioning of the Museum, that can only arise from competent research. The effectiveness of this procedure, followed in all the great museums and research institutions of the free world, is demonstrated by the published results.

* * * * *

In the light of these remarks, the following report will be seen to measure both the accomplishments of the Museum staff and the public support accorded the Museum in carrying out its mission.

Publications

In addition to an Annual Report, the National Museum issued 26 publications based on work in the national collections, including 1 in the Bulletin series, 24 papers in the Proceedings, and 1 in the Contributions from the National Herbarium. The titles of these are listed on pages 102 and 103. At the close of the year four bulletins and one Proceedings paper were in press.

Members of the staff, their research associates, and collaborators published through the Museum and in the scientific journals and elsewhere a total of 138 books, articles, and reviews involving their special field of interest in the national collections. These were distributed as follows:

<i>Subject</i>	<i>Publications</i>	<i>Subject</i>	<i>Publications</i>
Anthropology	20	History	9
Botany	25	Zoology	64
Engineering and Industries	1		
Geology	19	Total	138

An additional number of articles, also based wholly or in part on the collections, are published annually by the many scholars, researchers, and visitors who use the Museum's services.

On February 29, 1952, Gladys O. Visel retired as assistant editor of the National Museum, after serving the Institution for 34½ years.

Funds Allotted

From the funds appropriated by Congress to carry on the operations of the Smithsonian Institution and its bureaus during the fiscal year 1951-52, the sum of \$821,960 was allotted to the United States National Museum. Of this allotment \$780,260 was used for salaries and expenses required for the preservation, increase, and study of the national collections of anthropological, zoological, botanical, and geological specimens, as well as materials illustrative of engineering, industry, graphic arts and history. The remainder, \$41,700, was used for printing and binding.

Department of Anthropology

(FRANK M. SETZLER, *Head Curator*)

The department of anthropology has made continuing progress on the long-range program of modernizing several of the large exhibition halls, of consolidating and providing additional documentation for the collections. In particular, a complete revision of the Latin American archeological hall was undertaken, and the entire gallery devoted to the exhibition of ceramics was revised to show ceramics of the world with emphasis on early English and American glass and ceramics.

Highlighting the research completed by the staff was the presentation for publication of a monograph, "The Horse in Blackfoot Indian Culture," based upon 11 years of field work and research, by Associate Curator John C. Ewers. Altogether, members of the staff completed over 25 articles, 21 of which have been published.

ACCESSIONS

Among the important gifts received during the year was a well-documented wampum belt of the eighteenth century, originally presented to Wyandot Indian chiefs by the Seneca Indians, a division of the Iroquois Confederacy. With its symbolic message, which may be interpreted as "Sit down here, accept hospitality, and be at peace," it served as a token of peace and friendship concluding the wars between this tribe and the Wyandot (Huron), who, just prior to their removal in 1842, lived along Lake Erie near Sandusky, Ohio.

In the early 1880's a large section of the original wampum belt was presented by Kitty Greyeyes, widow of Chief John W. Greyeyes, to Huldah H. Bonwill in appreciation of her services as a Quaker missionary and teacher among the Wyandot. Said the Indians to her, "We often think how you work for us. We can't pay you. You keep this." Later she gave the belt to a leader among the Quaker Indian missions, Joseph S. Elkinton of Philadelphia, whose grandson, Howard W. Elkinton, presented the belt to the Museum 110 or more years after peace had been secured.

During the examination of an archeological collection assembled many years ago by the well-known agriculturist Dr. O. F. Cook, a beautifully carved and painted Inca kero (wooden beer cup) was discovered. Around the entire outer surface is depicted the rope-dance ceremony in honor of the coronation of the Inca emperor Huascar

(1525-1532). This well-preserved royal Inca object, together with other Peruvian objects, was presented by Robert C. Cook, the son of the collector.

Through a bequest from the late Mrs. Emily V. Taylor the national collections were enriched by a noteworthy Philadelphia high chest, or highboy. This example of one of the most sophisticated phases of our colonial American culture is outstanding in that it embodies characteristics of design and workmanship unusual in the Philadelphia highboy form of the period 1760-1770.

Archeology.—Well-documented archeological material from the eastern United States, especially Virginia, North Carolina, Maryland, and the District of Columbia, has been lacking. The accessioning of 3,881 type specimens of potsherds and arrowheads from this area, a welcome addition to the collections, was made possible by the gifts of eight different collectors: Dr. B. C. McCary, Dr. C. A. Michael, Dr. C. G. Holland, and Asa Gray Phelps, of Virginia; Drs. T. Dale Stewart and Clifford Evans, of the U. S. National Museum; Frederick Ange, of North Carolina; and the Natural History Society of Maryland.

Ethnology.—The post-World War II period has brought to the Museum new and valuable ethnological materials from distant places and from peoples whose cultures hitherto were poorly represented. Such an area is southeastern Asia and its great outlying islands of Sumatra and Java, the source of an outstanding gift from Mr. and Mrs. Robert C. Pierson, Jr. Consisting of a complete theater set of 130 appurtenances of the puppet show, *wayang*, which they obtained from the puppet-master, *dalang*, in the Sundanese village of Tjiawi, West Java, it also includes orchestral instruments, *gamelan* (graduated brass gongs and xylophones mounted on frames, a bowed reba, cymbals, and tubular wooden drums), that provide the musical accompaniment to the narrative of the master as he manipulates the carved wooden puppets. Through these, costumed and painted to represent traditional epic characters, the *dalang*—in asides—comments freely on current events, local gossip, or world politics.

Brig. Gen. R. A. Osmun presented a collection he obtained from natives of northern Burma and Assam during World War II, including two short-ranged weapons used in shooting birds, a crossbow from Burma, and a pellet bow, with clay pellets, from Assam. Mrs. Hoffman Philip gave a collection of religious objects, weapons, jewelry of silver filigree, and accessories of dress, collected in Abyssinia by her husband, the late Honorable Hoffman Philip, while in the diplomatic service.

In the collection representing the colonial aspects of western European cultures is an interesting group of objects associated with

English usage of the eighteenth and early nineteenth centuries, presented by John Smithson and John Smithson, Jr.: A George II silver tankard by Harvey Price of London (1731), a George III basting spoon, a traveler's silver wine cup made in Paris about 1750, and two English silver luster teapots. Among the 17 specimens added to a previous gift from Mrs. Lura Woodside Watkins are examples of the earliest types of pressed glass made in Cambridge, Sandwich, and Pittsburgh.

Physical Anthropology.—The largest accession this year represents a transfer of 78 human skeletons selected from 106 burials from two Indian cemetery sites, now inundated by the John H. Kerr Reservoir, on Buggs Island in the Roanoke River near Clarksville, Va. This collection gains in scientific interest because very few Indian remains have been recovered in the area.

EXHIBITION

Considerable attention was given to modernizing some of the anthropological exhibition halls and to installing special exhibits illustrating recent accessions.

In collaboration with the National Collection of Fine Arts a special exhibition of aboriginal bark paintings and decorated ceremonial objects entitled "Art and Magic in Arnhem Land, Australia," was opened in the foyer of the Natural History Building in the presence of representatives of the Australian Embassy and the National Geographic Society, cosponsors with the Smithsonian Institution, of the international expedition to Arnhem Land in 1948. A portion of this exhibit will be used to inaugurate the Smithsonian Traveling Exhibition, an undertaking of the National Collection of Fine Arts.

In close cooperation with the anthropological laboratory, the staff in physical anthropology prepared exhibits illustrating new specimens or demonstrating anthropological techniques. Among these was one that illustrated the traditional skull-painting practiced by the aborigines of Arnhem Land and another, the techniques used by staff anthropologists in creating the Indian busts in the Museum collection.

In a special archeological exhibit, the close similarity of certain decorative techniques and surface treatments of pottery from the eastern United States and the aboriginal Jomon period culture of Japan was demonstrated. This exhibit, prepared under the general theme of "Parallel Invention or Diffusion—A Ceramic Approach," was later permanently installed in the Old World archeology hall, with other examples of Jomon period ceramics.

Under the direction of Associate Curator Clifford Evans, a plan for revising the entire Latin American archeology hall was formu-

lated and undertaken. As a result, the hall is being divided into culture area alcoves and the exhibits are being correlated in a meaningful presentation that reconstructs the cultures of the major archeological periods of Latin America: Mesoamerican, subdivided into its two major regions, the Maya, with its glyphic writing, and the Valley of Mexico, with its Aztec pictographic writing; circum-Caribbean; tropical forest and marginal; and Andean. Of the total of 30 cases in the new floor arrangement, 3 have been completely modified by the cabinet shop, 4 partially completed, and exhibits for the Maya section of the Mesoamerican alcove are ready for installation. This work, involving the shifting and storing of many thousands of specimens, some quite large, has advanced rapidly, thanks to the cooperation of the maintenance and operations division and the efforts of Museum Helpers Eugene P. Greer and Robert C. Jenkins.

The division of ethnology collaborated with the divisions of engineering, and crafts and industries, in arranging an eight-case display of tools and handicrafts for the fall meeting of the Early American Industries Association, including exhibits on whaling and the art and life of the whaler, and also a collection of 138 woodworking tools lent by Frank H. Wildung.

The series of special exhibits interpreting the growing collections of European and colonial American period art, ceramics, glass, home furnishings, and the productions of outstanding early American master craftsmen and silversmiths, was continued on display in the foyer of the Natural History Building and will be enlarged to include the productions of additional outstanding colonial craftsmen.

The arrangement and selection of specimens in the ceramics gallery were revised by Associate Curator C. Malcolm Watkins in order to display some of the many recent acquisitions of glass and ceramics and to make possible a more comprehensive presentation, particularly in English and American wares.

For the revised Pueblo exhibit illustrating the daily life of these people the anthropological laboratory completed an exhibit consisting of a ground plan of a Zuñi pueblo mounted on plywood, a scale model showing construction of a Zuñi pueblo roof, and mounted photographs depicting the interior of a pueblo, a room elevation, and cornfield scenes. This is coordinated with a new one-unit exhibit of Zuñi pottery, consisting of 16 representative vessels, that was installed by Associate Curator John C. Ewers to replace the former disproportionately large alcove exhibition of 375 vessels. The student interested in more than a representative display of Pueblo pottery may examine at first hand the large classified collections in the reference series.

Two noteworthy specimens of historical wampum were placed on display with other historic relics of the western Indians: The recently

acquired wampum belt treasured by the Wyandot as a symbol of their peace with the Seneca; and an Iroquois wampum mace, consisting of six strings of tubular wampum beads cut from the shell of the clam *Venus mercenaria*.

CARE OF COLLECTIONS

The constant attempt to obtain additional documentation on the early collections received 100 or more years ago is occasionally richly rewarded. A search for information on a sizable collection of ethnological materials from the American Indian, Oceania, Asia, and Africa, accessioned in 1866 under the name "J. Varden," led to the discovery, in the Smithsonian archives, of the original catalog of John Varden's Washington Museum. From this catalog it was learned that a number of these objects had been assembled by him for what became in 1836 the first museum in the city of Washington. These were transferred to the National Institute in 1841, and later, to the Smithsonian Institution, making this one of the earliest documented collections in the Museum, many of its specimens having been preserved for more than 110 years. John Varden, who founded the Washington Museum, later became the first curator of the National Museum and died in 1865.

As a part of the long-range program of modernizing exhibits many thousands of specimens are being removed from the exhibition cases and are being incorporated in the reference series, where they are available to students and other investigators, much as are books in a reference library or documents in a historical archive. The study collection of glass and ceramics was removed from the inaccessible storage bins beneath the exhibition cases, sorted by Assistant Curator R. A. Elder and Museum Helper George McBryde over a period of 4 months and replaced in specially constructed drawers. Reclassification of the study collections from the Plains Indians, begun in the early spring, was nearing completion at the end of the year. Reorganization and consolidation of the North American archeological collections by Museum Helpers Eugene P. Greer and Robert C. Jenkins, under the direct supervision of Associate Curator Clifford Evans, permitted the elimination of those objects showing no evidence of workmanship, or lacking adequate documentation. During the first 6 months of the fiscal period, 9,949 lots of such specimens, useful to illustrate types or categories of artifacts, were removed from the collections and set aside for use as gifts to schools, children's museums, and for similar educational purposes, after which the attention of the staff was devoted to reorganizing the Latin American archeological collections, a task that will occupy them for many months to come.

In the division of physical anthropology steel racks were installed to house a large portion of the drawers of human skeletal material, and plans for similar treatment of the remaining section of the study collection were approved. The long-range project of providing the division of ethnology with a standard type of insect-proof storage case, initiated in 1925, was substantially completed.

Through the cooperation of the Leatherwork Division, U. S. Bureau of Standards, a method was devised for the softening of animal skins in old and brittle Plains Indian specimens. The anthropological laboratory cleaned and restored parts of the Museum collection of old paintings of Indian subjects; however, the main task of Preparators A. J. Andrews and J. E. Anglim centered around the modernization of the anthropological exhibits and assisting the staff in building numerous special exhibits for the foyer.

INVESTIGATION AND RESEARCH

In cooperation with the National Geographic Society, the Smithsonian Institution undertook to locate, survey, and photograph giant human and animal effigies along the Colorado River near the town of Blythe, Calif. Head Curator Frank M. Setzler and Richard H. Stewart, assistant chief of the photographic laboratory of the National Geographic Society, thanks to the excellent cooperation of Flight B, 4th Air Rescue Service, U. S. Air Force, were able to locate not only three giant effigies outlined in the desert gravels 15 miles north of Blythe, but also two sites heretofore unreported—one near Topock, Ariz., and a large site east of Ripley, Calif., on the Arizona side of the Colorado River. Subsequent research indicated that these unusually large effigies may have been created as a shrine commemorating a mythological hero, "Elder Brother," by a branch of the Yuman-speaking group of Indians. A recorded myth and a description of a comparable effigy, obtained by Dr. Frank Russell some 50 years ago among the Pima Indians, 200 miles east of the Colorado River, and published by him in the twenty-sixth (1904-1905) annual report of the Smithsonian Bureau of American Ethnology, gives a clue to the possible origin. These effigies were probably made some time between 1540 and the middle of the nineteenth century. An article describing these investigations was submitted to the *National Geographic Magazine*.

At Washington University in St. Louis, Frank M. Setzler spent several days working with Dr. Mildred Trotter on the analysis of hair samples collected from Arnhem Land aborigines. He later examined an archeological site at Cambridge, Md., that has produced types of prehistoric artifacts unusual for this section of the country.

The burial site was found to lie beneath a 40-foot sand dune which has formed along the banks of the Choptank River. In January 1952 he was chosen President-Elect of the Washington Academy of Sciences.

Neil M. Judd, associate in anthropology, continued his researches resulting from the archeological investigations he directed for the National Geographic Society in Chaco Canyon, N. Mex., and during the year he edited and submitted a monograph by the late Dr. Kirk Bryan, of Harvard University, entitled "The Geology of Chaco Canyon, New Mexico, in Relation to the Life and Remains of the Prehistoric Peoples Who Inhabited Pueblo Bonito." As the year ended, Mr. Judd was engaged on a report of the excavations at Pueblo del Arroyo.

Dr. W. W. Taylor, collaborator in anthropology, directed six field trips in connection with the Pueblo ecology survey in the Four Corners district of Arizona, Utah, Colorado, and New Mexico. This work was done under permit from the Secretary of the Interior and the Navaho Council. Although a number of archeological sites were located, some of considerable promise for general work, it became apparent that the sites for this specific program are not to be found in the Kayenta region of the Four Corners district. He continued his work on a monograph of the cave excavations in Coahuila, México.

Physical Anthropology.—Dr. T. D. Stewart, curator of physical anthropology, completed or advanced 15 different projects, some of which have been in progress for some time. Among the new projects the following are noteworthy:

At the suggestion of a Lincoln scholar, Dr. M. A. Shutes, he undertook to appraise Lincoln's physical dimensions, particularly those yielded by original casts of life masks of his head and hands taken by the sculptors Volk and Mills in 1860 and 1865, respectively, and now in the Museum collections. Nearing completion was a summary, brought together for handy reference, of information available for the identification of skeletal remains in medicolegal cases, to which have been added observations, based on the large Museum collections, relating to the determination of age. In August, Dr. Stewart presented a paper on physique and environment at a conference on anthropological sciences, celebrating the four-hundredth anniversary of the founding of the Universidad Nacional Mayor de San Marcos de Lima in Perú. His paper stressed the difficulties inherent in studying by means of traditional techniques those changes in the human body attributable to environmental factors. The measurements that he had taken on the Indians in highland Guatemala a few years ago were used to illustrate this point.

His diagnosis and description of some pathological bones from Tinian in the Marianas Islands in the western Pacific, collected by Dr. Alexander Spoehr of the Chicago Natural History Museum, revealed the presence of yaws. Coming from an ancient site, these bones apparently constitute a very early example of prehistoric yaws. In the course of studying another lot of bones, those from Conkling Cavern, N. Mex., thought to be among the oldest human skeletal remains thus far recovered on this continent, Dr. Stewart decided that an objective test of their antiquity was needed. Accordingly he secured some of the associated Pleistocene-type animal bones from the Los Angeles County Museum, which had supplied the human bones, and arranged with Dr. F. J. McClure, of the National Institutes of Health, to make comparative tests for fluorine. The results, although not as conclusive as desirable, do not refute the antiquity implied by the stratigraphy and association.

During the first half of the fiscal year the associate curator, Dr. M. T. Newman, was occupied in providing additional documentation for the collection of plaster-of-paris busts and face masks representing the different races of the world, after which he continued the collection of detailed data on the native Australian skeletal material from Arnhem Land. In April Dr. Newman delivered a lecture before the Philadelphia Anthropological Society, entitled "The Racial Anthropology of the Aboriginal New World." This dealt largely with the demonstration that many of the adaptive correlations and ecological rules of biology apply to man as well as to other warm-blooded animals. An abstract of this lecture is being published by the Philadelphia Anthropological Society. In addition, he was able to start a study of the large, well-preserved and documented Indian skeletal series from Mobridge, S. Dak., from which he hopes to clarify protohistoric population movements in the northern plains.

Ethnology.—Curator H. W. Krieger has in preparation a manuscript on La Isabela, Dominican Republic, which will provide a record of the settlement based on Spanish primary sources, supplemented with geographical and archeological data obtained through field work at the site in 1945, 1947, and 1952. During his latest visit to the Dominican Republic, where he represented the Smithsonian Institution at the Fifth Interamerican Congress of Municipal History, in Ciudad Trujillo, he again examined La Isabela—established by Christopher Columbus in December 1493, on his second voyage—a settlement that symbolizes to Hispanic America what Jamestown signifies, historically and culturally, to Anglo-America. He continued work on his report on the Smithsonian Expedition of 1947 to Indian village sites associated with the first voyage of Christopher Columbus and con-

solidated data on the aboriginal tribes of the West Indies accumulated since the inception in 1928 of the Smithsonian's anthropological project in that area. Progress was made with classifying the collections obtained and in preparing the manuscript summarizing the results. He also plans a monograph of the Indians of the Antilles. During the year he was elected associate member of the Junta Nacional de Arqueología y Etnología and the Sociedad Colombista Panamericana, of the Cuban Ministry of Education, Habana, Cuba.

Associate Curator John C. Ewers submitted for publication a monograph, "The Horse in Blackfoot Indian Culture," based upon a program of research extending over 11 years. At the invitation of the Newberry Library, Chicago, he participated, in March 1952, in a conference of scholars of American Indian ethnology and Indian history to discuss methodological problems in ethnohistorical research. The award of a Neosha grant enabled him to spend 2 months in the field, during which time he studied and photographed the extensive collection of Blood and Piegan Indian collections in the Denver Art Museum, then visited the Blood Reserve, Alberta, Canada, and the Blackfoot Reservation, Mont., to interview elderly Indian informants. Photographs of the remarkable series of ceremonial headdresses and other equipment used by Blood Indian women in the buffalo dance ceremony of the Matoki Society served as an introduction to the investigation of the history, organization, paraphernalia, and procedures of that little-known society whose ceremony was witnessed and briefly described by Prince Maximilian of Wied in 1833, and which still survives among the conservative Blood Indians. On his return, Mr. Ewers examined the collection of Blood Indian materials at the Chicago Museum of Natural History.

Associate Curator C. Malcolm Watkins continued his study of colonial archeological materials, particularly the simple pottery types found at Jamestown and Kicotan, Va. He also made brief studies of Gallatin glass in the Museum collections and of the Washington glassworks, both for publication in *Antiques*.

Mrs. Arthur M. Greenwood generously devoted much time to the documentation of the collection of colonial arts and furnishings given by her and the late Dr. Arthur M. Greenwood in 1951.

Archeology.—Following the completion of his field investigations for the Smithsonian River Basin Surveys in the Oahe Reservoir along the Missouri River in Stanley County, S. Dak., Curator Waldo R. Wedel undertook an analysis and description of the collections made. In the spring he spent several days at Princeton University examining archeological collections, dated by carbon-14 at circa 5000 B. C., from the Horner site near Cody, Wyo. He also participated in the Ninth Plains Archeological Conference in Lincoln, Nebr. At year's end Dr.

Wedel was again in the field, representing the Smithsonian Institution on a joint excavation project with Princeton University at the Horner site near Cody, Wyo. Dr. Wedel was reelected president of the Anthropological Society of Washington.

Associate Curator Clifford Evans presented for publication "A Ceramic Study of Virginia Archeology," a sequence of aboriginal culture development, both spatially and temporally, that provides a structural framework for future archeological work in the region. A related study on projectile points and blades, prepared by Dr. C. G. Holland of Virginia under his direction, appears as an appendix to the manuscript. Dr. Evans delivered two papers on aspects of the subject at the Eastern States Archeological Federation and the American Anthropological Association meetings. He and Dr. Betty J. Meggers continued their collaboration in the analysis and interpretation of archeological materials excavated in 1948-49 for the Department of Anthropology, Columbia University, by the Lower Amazon Expedition in the Territory of Amapá and on the Islands of Mexiana, Caviana, and Marajó. In connection with the preparation of this monograph they studied South American archeological collections in the Chicago Natural History Museum and the American Museum of Natural History.

Research by visiting investigators.—During the year 4,280 people conferred with members of the staff in the department offices and laboratory. Of this group over 300 scientists made use of the collections for their specific research, coming for this purpose from all parts of the United States, México, and South America, as well as from such widely separated places as Bangkok, Thailand; Zagreb and Belgrade, Yugoslavia; Taipei, Formosa; Sweden; Canada; Tokyo, Japan; Paris, France; and Australia. These contacts make possible a highly valuable exchange of anthropological services that benefits both the outside investigator and the Museum staff.

Department of Zoology

(HERBERT FRIEDMANN, *Acting Head Curator*)¹

The year's accomplishments are fairly evenly divided between completed researches and extensive improvements and reorganization in the care of the collections. The latter aspect of the department's work was made possible by the receipt of new storage cases and drawers. To single out for special mention just a few of the many researches brought to the stage of manuscript completion during the year, the following illustrate the current scientific work of the department:

NORTH AMERICAN COPEPODS OF THE FAMILY NOTODELPHYIDAE

A monographic account by Paul L. Illg, formerly associate curator of marine invertebrates.

UROCOPTID MOLLUSKS OF CUBA

A large monograph devoted to the systematics and distribution of this large family of Cuban mollusks, representing the culmination of many years' work, by Paul Bartsch, associate in mollusks.

THE HONEY GUIDES

A monograph of this family of African and Asiatic birds, with particular emphasis on the problems they present in the phylogeny and evolution of behavior patterns, by Herbert Friedmann, curator of birds.

AMERICAN SEA SHELLS

A popular, illustrated book primarily designed to help the amateur students and collectors of shells, by R. Tucker Abbott, associate curator of mollusks.

There were issued during the year over 300 publications wholly or in part based on material in the national collections. Members of the zoological staff were authors, either solely or jointly, of many of these.

The number of specimens added to the zoological collections was somewhat larger than in the preceding year and much larger than that in 1949-50.

The resignation, to enter university work, of Paul L. Illg, associate curator of marine invertebrates, leaves a serious gap in the staff of specialists on marine invertebrates.

ACCESSIONS

Accessions received during the year totaled 251,290 specimens of all groups of animals. This material, from a world-wide range of localities, added greatly to the usefulness and significance of the col-

¹ Vice Dr. Waldo L. Schmitt, Head Curator of Zoology, on leave during June 1952.

lections, and not only filled many gaps, but also brought to the Museum much type material and many specimens of reference value and, in some cases, of exhibition interest.

While the major accessions are listed under the divisional groupings, it may be pointed out that the investigations, continued from the preceding year, of the U. S. Fish and Wildlife Service vessel *Oregon* in the Gulf of Mexico, under the leadership of Stewart Springer, brought to the Museum further valuable and diverse collections of fishes, crustaceans, and other marine invertebrates from the deeper waters of that area. Similarly productive was the *Blue Dolphin* expedition, commanded by David C. Nutt, along the coast of Labrador. One long-range collecting operation came to a close as M. A. Carriker, Jr., working under the W. L. Abbott fund, completed the field work for an ornithological survey of northern Colombia. A new 3-year collecting project was instituted, a survey of the birds of Northern Rhodesia, by Maj. Edward H. Haydock, a resident of that country.

Accessions proving to be of particular interest and importance include the following:

Mammals.—The Army Medical Service Graduate School's survey of Mount Kinabalu, North Borneo, resulted in a fine collection of 579 mammals, including many species and subspecies previously unrepresented in the Museum. From the U. S. Fish and Wildlife Service were transferred some 685 specimens, including material needed for an adequate exhibition group of Alaskan sea otters. With the aid of the Office of Naval Research, Dr. Henry W. Setzer collected 141 mammals from the Arctic slope of Alaska; through the Spencer F. Baird fund was purchased a notable lot of 183 specimens collected in Labrador by Dana P. Snyder.

Birds.—Through the W. L. Abbott fund, M. A. Carriker, Jr., continued work in Colombia, sending in 1,073 skins, 9 skeletons, and 8 eggs from that country, while from Panamá Dr. A. Wetmore and W. M. Perrygo obtained 675 skins, 9 skeletons, 5 specimens in alcohol, 9 eggs, and 1 nest. American Consul Donald W. Lamm sent 379 skins from Mozambique; the Public Health Service, through Dr. Laurence Irving of the Arctic Health Research Center, 302 skins from northern Alaska; Father Antonio Olivares presented 675 skins from Colombia; the National Geographic Society, 75 skins from Venezuela; the Musée du Congo Belge presented a pair of the rare Congo peacock *Afropavo congensis*; and the U. S. Fish and Wildlife Service deposited 1,196 skins of North American birds.

Reptiles and amphibians.—A valuable lot of 75 specimens from Mount Kinabalu, North Borneo, was received from the Army Medical Service Graduate School; and from the Naval Medical Research Unit

No. 3, a collection comprising 1,165 reptiles and amphibians from Egypt and adjoining countries. M. B. Mittleman presented 2 types and 4 paratypes of new species of salamander, and Ottys Sanders donated 1 type and 6 paratypes of a new species of toad.

Fishes.—Dr. E. A. Lachner gave a collection of 16,417 fishes from the eastern United States. In addition, assisted by W. T. Leapley, he collected for the Museum 15,037 fishes in southeastern United States. Dr. George Moore, Oklahoma Agricultural and Mechanical College, sent as an exchange 5,115 named fresh-water fishes from the Arkansas and Red Rivers. These, with the two lots received from Dr. Lachner, form a highly valuable and useful addition to the Museum's series of North American fresh-water fishes. By exchange from the Museum of Comparative Zoology were received many valuable specimens, including 104 holotypes, cotypes, and paratypes. A number of other institutions and individuals contributed type specimens to the total of 1 holotype, 60 cotypes, and 47 paratypes.

Insects.—Approximately 6,000 miscellaneous insects were collected for the Museum by O. L. Cartwright, about two-thirds of them Coleoptera, largely from the grounds of the Inter-American Institute of Agricultural Sciences, Costa Rica. This sample of the fauna of the region is of importance, since the Museum is frequently called upon by members of the staff of the Institute for identifications of their local insects. A second important accession was a collection of about 4,300 neotropical bugs, both Homoptera and Heteroptera, donated by Drs. Luis F. Martorell and John S. Caldwell. Again, its importance lies in the fact that the Museum is being called upon more and more by South American workers for identifications, and therefore needs to have its neotropical collections strengthened in all groups. With the increasing interest shown in the far north, the Museum needs also to enlarge its collection of Arctic material; therefore, the collection of nearly 2,000 insects from Alaska made by Dr. R. I. Sailer and transferred by the Department of Agriculture is noteworthy.

Marine invertebrates.—A gift from Mrs. J. Paul Visscher and her children brought approximately 11,000 barnacles and other marine invertebrates, as well as publications, notes, and lantern slides from the collections of the late Dr. J. Paul Visscher. Dr. A. S. Pearse presented 23 barnacles, 290 copepods, including 22 type lots, and 26 isopods, including 1 type lot, all from Texas. Dr. E. A. Lachner collected 2 shrimps and 247 crayfishes from the southern United States. From the Hopkins Marine Station, Pacific Grove, Calif., were received 631 slides of ostracods, including considerable type material. The Arctic Research Laboratory of the Office of Naval Research, through Dr. J. Böhlke, transferred 1,410 specimens of marine invertebrates from Point Barrow, Alaska. Dr. Stillman Wright donated 533 lots of copepods and other fresh-water plankton from

South America. The Division of Oceanography, U. S. Navy Hydrographic Office, transferred more than 290 specimens of planktonic invertebrates from the Atlantic Ocean. In addition to these, at least a dozen other accessions contained type material.

Mollusks.—Outstanding was the gift from Pedro de Mesa of 4,400 land, fresh-water, and marine mollusks from the Philippines, the most important collection of Philippine mollusks received in 30 years. From Mr. and Mrs. James A. Grigg came 1,380 marine mollusks, largely from Western Australia, a region hitherto poorly represented in the collection; from Mrs. F. K. Hadley, the holotype and 74 paratypes of *Terebra hoffmeyer*i Abbott, from the Philippines; in exchange from the Museum of Comparative Zoology, a total of 2,543 specimens, including 40 lots of paratypes; from Leslie Hubricht, 24 paratypes of new species in the family Polygyridae, from North Carolina, described by him; in exchange from l'Institut Français d'Afrique Noire, Dakar, through Dr. P. L. Dekeyser, 169 marine mollusks from French West Africa, an area poorly represented in the collection; from Dr. Joseph P. E. Morrison, 22,000 mollusks collected between 1934 and 1951 in the area from Pennsylvania to Virginia, west to Missouri, the largest accession received this year; from Dr. Mario Sanchez Roig, 65 recently described land mollusks from Cuba, including 9 lots of paratypes; from Mr. and Mrs. John N. Sennott, 45 marine mollusks from the Gulf of Mexico, including the holotypes of 4 new species described by H. A. Rehder and R. T. Abbott; from Sozon Vatikiotis, 264 marine mollusks from the Red Sea, a welcome addition from this rich but inadequately represented area; and from the Zoological Institute, Kyoto University, through Dr. Tadashige Habe, 55 rare marine mollusks from Japan, of which 18 lots are paratypes of species recently described by him.

Helminths.—Among 11 accessions received during the year, 4 were of great reference value, as they contained type material: From W. F. Johnson and J. E. Copey, the holotype of *Opisthadena bodegensis*, from California; from Prof. T. O. Odlaug, the holotype of the trematode *Brachylaemus condyluræ*, from Minnesota; from Oregon State College, the holotype and 4 paratypes of *Proteocephalus salmonidicola*; from Dr. H. J. Van Cleave, 5 paratypes of an acanthocephalan, *Neoechinorhynchus prolixus*, from Oklahoma.

Echinoderms.—Outstanding among the 12 accessions received during the year, totaling 347 specimens, is a lot of 26 specimens from the Gulf of Mexico, transferred by the U. S. Fish and Wildlife Service.

EXHIBITION

The program of modernizing the outmoded synoptic displays continued. Two groups of North American mammals, the Virginia deer

and the puma, were remodeled and provided with new rock and plant accessories and the cases equipped with internal illumination. The skilled use of monochrome back drops and accessories in these produces an acceptable approximation of the more costly panoramic background of the habitat type of display. In addition to these two completed cases, Exhibits Preparator W. L. Brown and his staff undertook the renovation of the North American bear group, and made substantial progress on another, the Alaskan sea otters. Work was also started on an exhibit of the large colonial nest of the palm chat *Dulus dominicus*, of Hispaniola.

The exhibit of deep-sea fishes was improved by the repair of some specimens. Among other changes, a very large reticulated python, a ball python, and 4 local species of snakes were placed on exhibition; and an alligator and 6 pronghorn antelopes were removed from display; 7 birds were mounted and added to the exhibition collections; the frog and lizard exhibits in the hall of comparative anatomy were rearranged; and considerable work was done on the labels and light boxes of the habitat group cases.

CARE OF COLLECTIONS

The receipt during the year of an unprecedented quantity of new storage cases and trays made it possible to accomplish a great deal in the care of the study collections. Notable progress was made in merging the bird collections of the U. S. Fish and Wildlife Service with those of the Museum. This involved rearranging about 60,000 birds in some 350 cases. The merging is now complete from the lowest groups up through the pigeons (Columbidae), as well as in a number of families beyond this point in the systematic series. The rearrangement of the mammal collection progressed through the families Canidae, Procyonidae, and Mustelidae. As larger cases are released by the merging of the bird collections, further rearrangements of the mammals are contemplated.

Routine processing and cataloging of the reptile and fish collections continued. To conserve space and equipment in the fish collections, small cataloged lots from the same locality were combined in larger single containers, these small lots being first placed in shell vials plugged with cotton to preserve their identity. Also, large specimens are being tagged and placed together in large containers, and large jars are being replaced by smaller ones where possible. A new type of monel-lined storage tank was installed, each half of which accommodates the contents of three earthenware crocks but occupies only two-thirds the space.

In the insect collection, the Megaloptera, Neuroptera, Raphidioidea, and Mecoptera were entirely rearranged, and the overhauling of the collection of Collembola was completed.

Under the direction of F. M. Bayer, associate curator of marine invertebrates, the collection of sea anemones was arranged alphabetically. In other portions of the invertebrate collection the shifting of specimens from unsatisfactory bottles to safer ones continued.

All the mollusk types have now been segregated, integration of the collections of West Indian land shells and those of the mainland and neotropical areas was completed, and all the Old World land-shell collections were similarly merged.

As usual, a considerable part of the time of the taxidermists was devoted to making up and renovating skins and cleaning skeletons. In all, the skins of 19 turtles were prepared, 56 bird skins were made up and 138 others degreased and remade, and 14 mammals were skinned and made up and 27 others remade. Skeletons prepared included 109 skeletons and 1,828 skulls of mammals, and 172 complete skeletons, 19 partial ones, and 4 skulls of birds. The collection of District of Columbia butterflies was cleaned and fumigated.

INVESTIGATION AND RESEARCH

Mammals.—Associate Curator David H. Johnson continued work on two major reports, one on the mammals of the Arnheim Land Expedition of 1948 and the other on mammals of the Pacific Ocean area, based mainly on specimens collected during World War II; and he undertook a third involving a study of collections made in the summer of 1951 on Mount Kinabalu in cooperation with the Army Medical Service Graduate School.

Associate Curator Henry W. Setzer returned from his field work on the Arctic slope of Alaska early in the year, and completed most of the report on his collections in the form of a manual of the mammals of the area. He initiated a complete survey of the mammals of Alaska at the request of and in cooperation with representatives of the U. S. Fish and Wildlife Service who are at the University of Alaska, and he continued his study of the mammals collected by U. S. Naval Medical Research Unit No. 3 in Egypt and the Anglo-Egyptian Sudan and also his revision of the American shrews of the genus *Cryptotis*.

Assistant Curator Charles O. Handley, Jr., continued his major study of Arctic mammals, completing the work on the lemmings and hares and making progress on other groups, the project being approximately 50 percent complete. He made systematic studies

of the flying squirrels, the pine mice, and the pipistrelle bats, and made progress on his studies of the mammals of Labrador and Guatemala. In June he sailed from New York as a member of an expedition sponsored and led by Laurence K. Marshall, of Cambridge, Mass., for several months of field work in the Kalahari Desert region of South-West Africa.

Birds.—In addition to publishing several book reviews and papers, Curator Herbert Friedmann completed the manuscript covering the families Ploceidae, Icteridae, and Thraupidae for the second volume of the "Distributional Check-List of the Birds of Mexico," and prepared the manuscript for the ranges of the Ploceidae, Icteridae, Thraupidae, and part of the Fringillidae for the fifth edition of the American Ornithologists Union "Check-List of North American Birds." He completed a chapter for a book on current ornithological research, "Recent Revisions in Classification and Their Biological Significance," and with Dr. A. L. Rand of the Chicago Natural History Museum began a study of the birds of Gaboon. The draft of his monograph of the African honey guides was completed.

Associate Curator H. G. Deignan made excellent progress on his critical catalog of the type specimens of birds in the Museum, and on his check-list of the birds of the Indochinese region. During the year he published 6 papers on Oriental and Australian birds, and prepared several as yet unpublished manuscripts on additional species.

Dr. A. Wetmore devoted most of his research time to studying the Panamanian and Colombian collections and published 9 papers in connection with these and other studies.

Reptiles and amphibians.—Associate Curator Doris M. Cochran devoted a large segment of her time to research on the frogs of western Brazil, a supplement to her paper on the frogs of southeastern Brazil, the manuscript of which has been accepted for publication. During the year she published a paper describing two new Brazilian frogs.

Fishes.—Curator Leonard P. Schultz and Associate Curator Ernest A. Lachner continued the preparation of volume 2 of "The Fishes of the Marshall and Marianas Islands," undertaken in conjunction with the atom-bomb experiments. This extensive work, which has occupied nearly all of the research time of the curator since January 1946, and that of the associate curator since February 1949, thus far has involved the study of 69 families embracing 231 genera and 598 species. Volume 1 is now in publication and volume 2 is far advanced; 2 big families having been completed this year, leaving only 3 large families and about 3 small ones uncompleted. During the year Dr. Schultz published 4 papers and submitted for publication 4 others.

Dr. Lachner published 1 paper and submitted manuscripts of 3 others. With William T. Leapley, museum aid, he undertook ecological, life history, and taxonomic investigations of fresh-water fishes through the Piedmont sections of the southeastern and south-central States, collecting over 15,000 fishes as well as various other zoological specimens.

Insects.—Curator E. A. Chapin continued his revision of the Coccinellidae of the Andean region of South America, devoting most of his time to the Colombian fauna, although considerable work was done on the much less rich Chilean species.

Associate Curator R. E. Blackwelder, whose study of the generic names of the beetle family Staphylinidae was in the final stages of publication, has two projects in progress, the bibliography and index to his check-list of the coleopterous insects of México, Central America, the West Indies, and South America, which is nearly completed, and his classification of the beetle family Staphylinidae, of which two sections out of a possible eight are in preliminary form.

Associate Curator William D. Field continued his investigations of the butterfly family Lycaenidae, working on three groups or subgenera, of the genus *Thecla*. A new classification of the subfamily Theclinae is expected to emerge from this work. He also undertook a study of three small genera of pierids, with special reference to the South American species.

Associate Curator O. L. Cartwright continued his investigations on the scarabaeid subfamily Aphodiinae. Two generic revisions for the Western Hemisphere, one of *Psammodius* and another of *Ataenius*, are in progress. The latter is of some economic importance, inasmuch as many of its species serve as intermediate hosts for worms parasitic in higher animals.

Associate Curator Grace Glance continued work on a species of Collembola which shows certain unusual structures for the family Isotomidae.

Marine invertebrates.—Curator F. A. Chace, Jr., published his study of a number of species of decapod and stomatopod Crustacea and completed a short manuscript on the stomatopod fauna of the Gulf of Mexico for inclusion in a volume on the biology and oceanography of that area. He brought to the final stages of completion his manuscript on the porcellanid crabs of West Africa and started the introduction to the chapter on the Malacostraca and an illustrated key to the North American fresh-water shrimps, both of which are to appear in the revised edition of "Fresh-water Biology" by Ward and Whipple.

Paul L. Illg, before resigning as associate curator, completed his monograph of the North American copepods of the family Notodelphyidae.

Associate Curator F. M. Bayer completed four manuscripts on octocorals, and also one on the alcyonarian fauna of the Gulf of Mexico for the volume on the biology and oceanography of that area.

C. R. Shoemaker, associate in zoology, devoted much of his time to the identification of amphipods and to a report on the amphipods of the waters off Point Barrow, Alaska.

Mrs. Mildred S. Wilson, collaborator in copepod Crustacea, continued studies preliminary to a monographic report on the North American copepods of the genus *Diaptomus*, as well as studies on other fresh-water copepods from Alaska.

As usual, the work of the division was greatly aided by the volunteer specialists, listed below, who kindly identified material of various groups.

Dr. Albert H. Banner: Mysid and euphausiid crustaceans.	Mr. Leslie Hubricht: Amphipod crustaceans.
Mrs. Norman C. Benson: Fresh-water sponges.	Dr. Libbie H. Hyman: Flatworms.
Mr. E. L. Bousfield: Barnacles.	Dr. Paul L. Illg: Copepod crustaceans.
Dr. B. G. Chitwood: Nematode and nematomorph worms.	Dr. R. W. Kiser: Cladoceran crustaceans.
Dr. Wesley R. Coe: Nemertean worms.	Dr. Karl Lang: Tanaid crustaceans.
Dr. Elisabeth Deichmann: Holothurians.	Dr. M. W. de Laubenfels: Sponges.
Dr. Ralph W. Dexter: Branchiopod crustaceans.	Dr. J. G. Mackin: Isopod crustaceans.
Dr. Walter K. Fisher: Poeobioid, echiuroid, and sipunculid worms.	Dr. Marvin C. Meyer: Leeches.
Dr. John S. Garth: Crabs.	Mr. Stanley Mulaik: Isopod crustaceans.
Dr. Olga Hartman: Polychaete worms.	Dr. Raymond C. Osburn: Bryozoans.
Dr. Joel W. Hedgpeth: Pycnogonids.	Dr. George H. Penn: Crayfishes.
Dr. Dora P. Henry: Barnacles.	Dr. E. Lowe Pierce: Chaetognaths.
Dr. Horton H. Hobbs, Jr.: Crayfishes.	Dr. Edward G. Reinhard: Rhizocephalan crustaceans.
	Dr. J. H. Stock: Pycnogonids.

Mollusks.—Curator Harald A. Rehder finished a paper summarizing current knowledge of the mollusks of the Gulf of Mexico, and collaborated with R. Tucker Abbott, associate curator, on a paper describing new species and subspecies of mollusk from the Gulf of Mexico. He devoted some time to his study of the genus *Distorsio* and to some interesting Caribbean species in the family Muricidae.

Associate Curator Joseph P. E. Morrison completed his studies on the Cypraeidae of Bikini, and did considerable work on the Conidae of the same area. He continued his studies of the families Ellobiidae, Pleuroceridae, and Thiaridae. In June, he left to spend 3 months in the field on Raroia Atoll, in the Tuamotu Islands, on an expedition sponsored by the Pacific Science Board.

Associate Curator R. Tucker Abbott published two shorter papers describing new species and did considerable work on the Neritidae of Bikini. He made substantial progress with his account of American sea-shells.

Dr. Paul Bartsch, associate in mollusks, completed his large monograph of the Urocoptidae of Cuba.

Research by visiting investigators.—Approximately 2,500 persons, of whom more than 200 were professional biologists or serious students, visited the offices and laboratories seeking information or the identification of specimens, consulting the staff and the literature, and examining the study collections. The wide range of interests covered is shown by the following partial list of scientists, other than those of Government agencies, who used the collections.

Dr. Emmet T. Hooper, University of Michigan. Central American squirrels.

Dr. Dioscoro S. Rabor, Silliman University, Philippines. Bats of the Philippine Islands, of the genus *Dobsonia*.

Mr. Bashir E. Allouse, Iraq Natural History Museum, Baghdad. Persian zoology and its literature.

Dr. Oliver L. Austin, Jr., Cape Cod, Mass. Japanese and Korean birds.

Señor Ramon Avelado H., Caracas, Venezuela. Venezuelan birds.

Dr. Laurence Irving, Arctic Health Research Center, Anchorage, Alaska. Arctic Alaskan birds.

Dr. Abelardo Moreno, University of Habana, Cuba. Birds of Cuba.

Dr. Frank A. Pitelka, University of California. Alaskan birds.

Dr. Myron K. Gordon, American Museum of Natural History. Mexican fishes.

Dr. Carl L. Hubbs, Scripps Institution of Oceanography. Various fish groups.

Dr. George S. Myers, Stanford University. South American fishes.

Dr. Horton H. Hobbs, Jr., University of Virginia. North American crayfishes.

Dr. L. B. Holthuis, Rijksmuseum van Natuurlijke Historie, Leiden. Decapod crustaceans of the Pacific.

Dr. A. S. Pearse, Duke University. North American parasitic copepod and isopod crustaceans.

Dr. Marian H. Pettibone, Johns Hopkins University. Arctic polychaete worms.

Dr. Freydoun A. Afshar, Department of Mines, Teheran, Iran. Mollusks of the family Tellinidae.

Dr. S. Stillman Berry, Redlands, Calif. Marine mollusks of California and the Gulf of Mexico.

Department of Botany

(JASON R. SWALLEN, *Head Curator*)

The botanical collections have been enriched by significant material from diverse regions, some of which have been very poorly represented in the herbarium. Accessions increased almost 40 percent over last year, and exceeded those of any year since the organization of the department. Continued emphasis on curatorial work has improved the usefulness of the collections and increased the efficiency with which they can be consulted. The research of staff members is reflected in the 22 papers completed and submitted for publication, while 85 additional papers, based in part on material in the National Herbarium, were published by other investigators.

ACCESSIONS

A number of important or noteworthy collections were received by the department. Received in exchange were 515 specimens from the Instituto de Botánico, Universidad Nacional de Tucumán, Tucumán, Argentina, collected by H. Sleumer in Patagonia, a region poorly represented in the National Herbarium; 659 specimens from the Botanical Institute of the Academy of Sciences of the U.S.S.R., consisting of 5 fascicles of the "Herbarium Flora SSSR" and various collections from western Siberia; 1,137 specimens from the Division of Botany and Plant Pathology, Department of Agriculture, Ottawa, Canada, composed of miscellaneous Canadian plants; 982 specimens from the University of California, mostly from California, collected by Annie M. Alexander and Louise Kellogg; 2,072 specimens of unusual historical interest from the Conservatoire et Jardin Botaniques, Geneva, Switzerland, mostly phanerogams and cryptogams from Switzerland; and 800 specimens from the New York Botanical Garden, collected in Nyasaland by Dr. L. J. Brass.

Gifts included 1,419 specimens from the Arctic Institute of North America, collected by L. A. Spetzman in Alaska; and 1,133 plants of Florida from the Archbold Biological Station, Lake Placid, Fla., collected by Dr. L. J. Brass. Among those received as gifts with names requested were 1,436 specimens from the Museo de Historia Natural "Javier Prado," Lima, Perú, collected by Dr. Ramón Ferreyra and associates; 602 specimens (some in exchange) from the New York Botanical Garden, collected in Venezuela by Dr. Bassett Maguire, containing many novelties and material of critical or little-known species; and 692 plants (some in exchange) from the University of

California, collected by Dr. H. L. Mason, S. G. Smith, and others in Colombia.

For the Museum, E. P. Killip collected 1,367 specimens, mostly from the Florida Keys and Cuba, and Dr. E. H. Walker collected 6,356 plants in the Ryukyu Islands and Japan on his botanical survey of Okinawa and adjacent islands.

The important accessions of interest primarily to the individual divisions were the following:

Phanerogams.—As a gift, identifications requested for some, 1,494 specimens of Colombian plants collected and presented by Oscar L. Haught, representing the most recent results of his productive field work in South America; 1,054 specimens received in exchange from the Arnold Arboretum of Harvard University, many of them collected in the West Indies by Dr. R. A. Howard; presented by the Charleston Museum, 5,800 European plants of the Kuntze Herbarium, containing many specimens of historical interest.

Grasses.—Collected for the Museum by Jason R. Swallen, 1,764 grasses of Honduras; in exchange, 400 specimens of European grasses from the Botanic Garden, Gothenburg, Sweden, and 200 African grasses from the Royal Botanic Gardens, Kew, England, the latter including some types; as gifts for identifications, 249 specimens from the Instituto Ecuatoriano de Ciencias Naturales, Quito, collected in Ecuador by Dr. M. Acosta Solís; 771 specimens, including many duplicates, of rare or critical grasses of Hawaii and other islands collected by and received from Otto Degener; and 173 Chilean specimens from Dr. H. Gunkel, Santiago, Chile, collected by him.

Ferns.—Gifts with names requested, 114 Mexican ferns from the Chicago Natural History Museum, collected by Dr. Margery Carlson; 108 specimens from South America, collected by Dr. Rosa Scolnik, Córdoba, Argentina; and 94 specimens from México, collected by Hernando Sánchez M., México, D. F.; in exchange, 67 ferns from Gold Coast, Africa, from Dr. C. D. Adams; as a gift from Dr. Charles L. Gilly, 83 specimens from México; as a transfer from the Herbarium of the National Arboretum, 567 specimens from Colombia and Ecuador.

Cryptogams.—In exchange, 1,020 lichens and mosses from Sweden, received from O. Kjellmert; 347 marine algae, including a number of types, received from the Allan Hancock Foundation; 313 miscellaneous specimens from Texas and California, received from Southern Methodist University; 212 specimens from the Arnold Arboretum of Harvard University, collected by Dr. A. C. Smith in Fiji; and 207 marine algae from the University of California; collected for the Museum by C. V. Morton, 232 miscellaneous specimens from Minnesota and California; as a transfer from the Herbarium of the National Arboretum, 1,000 bryophytes of India, collected by Walter Koelz.

CARE OF COLLECTIONS

The maintenance of the collections and the processing of new material continued normally, although more was accomplished than in preceding years. The major activities are summarized in the following tabulation:

	1950-51	1951-52
Specimens mounted.....	33,488	37,886
Specimens repaired.....	7,592	4,566
Specimens stamped and recorded.....	32,104	40,225
Specimens incorporated in herbarium.....	32,617	47,406
Photographs mounted.....	1,754	1,851

There were 968 types segregated from the general herbarium or selected from recent accessions and incorporated in the type herbarium, which now contains 52,768 specimens, as follows: Phanerogams, 37,579; grasses, 9,759; ferns, 3,090; cryptogams, 2,340.

The Hitchcock and Chase Library was increased by 124 publications on grasses, making a total of 6,976. The grass species index now contains 78,007 entries, 196 having been added during the year. Thirteen fruits were added to the special collection of the division of phanerogams, which now consists of 1,061 specimens.

The custom of fumigating the herbarium twice a year has seemed more frequent than necessary, and for the last two years the collections have been fumigated only once a year. Since no insect damage or infestation has been noted, the latter schedule will be continued, with a resulting saving of material and greater convenience to the staff and visiting botanists. All incoming specimens are fumigated at once.

INVESTIGATION AND RESEARCH

Phanerogams.—Continuing his studies of Pacific Island plants, Dr. A. C. Smith submitted for publication five papers in his series on this subject, including regional revisions of the families Cunoniaceae, Euphorbiaceae, and Elaeocarpaceae for Fiji and some adjacent archipelagos, as well as miscellaneous notes on other families.

Dr. L. B. Smith continued his work on separate accounts of the family Bromeliaceae in Colombia, Bolivia, and Brazil, his major effort being directed toward the completion of keys to the 550 Brazilian species. His research in the genus *Begonia*, in collaboration with Dr. Bernice G. Schubert, has continued with the publication of one report. The manuscript of a treatment of the genus *Xyris* in Colombia, a joint project with Dr. Jesús M. Idrobo, has been completed, and studies of the Colombian Violaceae are being continued in collaboration with Dr. Alvaro Fernández.

From February to May, he carried on field work in eastern Brazil, visiting States from Pará to Santa Catarina, to study the family

Bromeliaceae in relation to malaria control. The field work was made possible by the cooperation of the Rockefeller Foundation and various Brazilian institutions, notably the Serviço Nacional de Malária, the Herbario "Barbosa Rodrigues," the Museu Nacional, the Jardim Botânico do Rio de Janeiro, and the Instituto de Botânica de São Paulo. The herbaria at these institutions, as well as those of the Museu Goeldi and Instituto Agrônômico do Norte at Belém, were found to be rich in specimens of the Bromeliaceae. A study of this material added over 1,000 citations to the manuscript of the Brazilian Bromeliaceae now in preparation, and contributed toward a better definition of the species and knowledge of their distribution.

At the opening of the year, Dr. E. H. Walker was engaged in field work in the Ryukyu Islands under the auspices of the Pacific Science Board, which is conducting a scientific investigation of these islands for the Department of the Army. He made extensive botanical collections on the southern Ryukyus, in Japan, and on Okinawa. In addition to enriching the national collections, his trip provided contacts that will lead to the receipt of further collections. It also laid the groundwork for the establishment of a herbarium at the University of the Ryukyus and permitted the preparation of a report on the plants and vegetation of Okinawa. After his return on September 30, he devoted much time to arranging his collections, writing a paper on his trip, and continuing his documentation of a manuscript flora of Okinawa prepared by resident botanists. He also engaged in preparing a booklet on the important trees of the Ryukyu Islands. While in Japan, he examined herbarium material in Tokyo and Kyoto for the furtherance of his study of Japanese Myrsinaceae. To the Natural History Society of Thailand he submitted for publication a contribution toward a bibliography of Thai botany.

E. C. Leonard continued his studies of the family Acanthaceae, submitting for publication the second part of his comprehensive revision of the Colombian species; the third and last part of this project is far advanced, the final groups of the family now being under study. A monotypic new genus of the family from Costa Rica was described and the manuscript submitted for publication. He also completed and published jointly with Dr. H. A. Allard a paper discussing the floristics of the Canaan and Stony River Valleys of West Virginia.

Velva E. Rudd's revision of the American species of the genus *Aeschynomene* is approaching completion, the entire manuscript being ready for final consideration after maps and other figures are prepared.

E. P. Killip, research associate, spent several months on the Florida Keys continuing his intensive collecting for the Museum and his

special study of the flora of Big Pine Key. Subsequently he traveled to the west coast before returning to Washington, making small collections at selected localities.

Grasses.—In October and November, Jason R. Swallen spent several weeks collecting in Honduras, principally in the Departments of Morazán and El Paraíso. Through the courtesy of the director, Dr. Wilson Popenoe, and Dr. Louis O. Williams, he was the guest of the Escuela Agrícola Panamericana, Tegucigalpa, Honduras, founded and operated by the United Fruit Company. His field studies of grasses in such diverse habitats as pine forests, open grasslands, and cloud forests, will help in classifying critical groups, especially *Panicum*, and in facilitating the identification of rather large lots of grasses collected in the region in recent years and sent to the National Museum for study. He completed work on several of the larger and more complex genera for his manuscript on the Gramineae for the flora of Guatemala, which is being published by the Chicago Natural History Museum. Two of his papers on the Gramineae were published, one in the "Flora of the Charleston Mountains" by Ira W. Clokey, and the other in the "Arizona Flora" by T. H. Kearney and R. H. Peebles.

Mrs. Agnes Chase, research associate, spent considerable time revising the herbarium collections of *Digitaria* in the light of the recent monograph of the genus by Dr. J. Th. Henrard. She also continued special studies on various genera of South American grasses. Her paper describing new species of *Thrasya* and *Ichnananthus* from Venezuela was published.

Ferns.—The principal research of C. V. Morton has been on the ferns of Honduras and Guatemala, countries for which he has been preparing fern floras in cooperation with the Escuela Agrícola Panamericana and the Chicago Natural History Museum. His account of the ferns of Arizona, appearing in the "Arizona Flora," was published during the year, as were three other short papers, one describing a new species of *Danaea*, one recording a species of fern new to the United States, and one making new combinations in the genera *Equisetum* and *Pellaea*. He also read proof on his account of the ferns and fern allies of the northeastern United States and Canada, scheduled for publication in the coming year.

Cryptogams.—Paul S. Conger continued his studies of the diatoms of Chesapeake Bay and his revisional work on *Rhizosolenia eriensis* and allied forms.

Research by visiting investigators.—Two investigators who have spent a year or more studying in the National Herbarium have completed their work: Dr. Ramón Ferreyra, of the University of San Marcos, Lima, Perú, who has returned to Perú; and Dr. Hui-Lin Li,

of National Taiwan University, Taipeh, Taiwan, China. Dr. Jesús M. Idrobo, of the Instituto de Ciencias Naturales, Bogotá, Colombia, is continuing his studies of the flora of Colombia. There were 68 botanists who made use of the collections of the National Herbarium in connection with their research projects, in addition to over 700 persons who visited the department briefly, usually seeking information of various kinds. Mycological specialists have made continued use of the Lloyd Herbarium and other units of the fungus collections which are maintained in cooperation with the Bureau of Plant Industry, Soils, and Agricultural Engineering at Beltsville, Md. In particular, studies have been made in the Polyporaceae and Xylariaceae, families which include many wood-rotting forms of economic importance. The collections have been consulted frequently by members of the staffs of other Government agencies, particularly of the Bureau of Plant Industry, Soils, and Agricultural Engineering, the Forest Service, the Fish and Wildlife Service, and the Geological Survey.

Department of Geology

(W. F. FOSHAG, *Head Curator*)

The increase of the geologic collections has again been very satisfactory, largely as a result of an effective program of field work and the acquisition of desirable material through gifts of valuable collections of type and described specimens. The increase in the number of visitors interested in the study of collections, and the wide variety of appeals for material for study reflect the importance of the extensive collections as a reservoir of potential scientific information.

In addition to the increase in the purely scientific value of the collections, the exhibition series, particularly the minerals and gems, continue to show a marked improvement in quality. Changes in both the vertebrate and mineral exhibition halls have greatly improved the effectiveness of the exhibits.

The scientific achievement of the staff has shown satisfactory advancement, and several important projects are now nearing completion.

ACCESSIONS

Mineralogy and petrology.—A total of 730 specimens in 105 accessions was added to the collection of the division. Five new species not formerly represented were received from the following donors: scholzite from Prof. H. Strunz, priderite from Prof. R. T. Prider and Mr. K. Norrish, viséite from Ohio State University, through Prof. Duncan McConnell, gumucionite from Julio F. Gumucio, and wherryite from Mr. and Mrs. J. W. Bradley. New species received in exchange were: rosieresite, weibyite, and ambatoarinite.

Among the many fine specimens received as gifts during the past year the following are noteworthy: autunite, Portugal, from Charles F. Davidson, Director, Atomic Energy Division of the Geological Survey of Great Britain; uvarovite, California, from Mrs. William S. Robertson; terlinguaite, México, from David Gallagher; andalusite, Maine, from Benjamin B. Burbank; stilbite, Pennsylvania, from Joel Shappirio and Omer Raup; garnet, Georgia, from G. W. Withers; monazite, New Mexico, from Dr. Oscar B. Muench; marcasite, Mississippi, from Mr. S. Mahurin; beryl, Uganda, from John S. Albanese; jasper, North Dakota, from Peter Zodiac; monazite, Maine, from Leo Neal Yedlin; uraninite, New Hampshire, from Prof. Benjamin M. Shaub; kaersutite, Arizona, from Edward T. Schenck; corundum, Madagascar, from Leroy M. Otis; allanite, California, from Dr.

George Neuerburg; and tsumebite, Arizona, from the University of Arizona through Prof. John W. Anthony.

Through the Roebling fund 71 specimens were obtained. Outstanding among these are a large colorless gem spodumene crystal from Brazil, two fine-quality lilac colored spodumene (kunzite) crystals and a cut gem of this same material from California, a fine topaz crystal from Colorado, and huge bournonite crystals, altering to bindheimite, from Austria. Also received through the Roebling fund were several etched masses of gem quality beryl from Brazil, from one of which a fine, flawless, light green oval gem weighing 578 carats was cut for the Museum by Comdr. J. Sinkankas.

Among the unusual specimens obtained through the Canfield fund are a magnificent pink octahedron of fluorite on smoky quartz from Switzerland, a large wolframite crystal on cassiterite from Bolivia, and excellent vanadinite specimens from México.

A fine cat's-eye chrysoberyl from Ceylon was a gift of Mrs. C. Drage in memory of her father, Dr. Frank Wigglesworth Clarke, for many years honorary curator of minerals in the National Museum. A spessartite garnet gem of orange-brown color from Brazil, weighing almost 54 carats, was purchased through the Chamberlain fund.

Two unusually large idocrase crystals from Olmsteadville, N. Y., were received in exchange from Elmer Rowley.

Dr. Stuart H. Perry continued his interest in the meteorite collection by donating five meteorites, including the following three new to our collections: Dayton, Montgomery County, Ohio; Loreta, Baja California, México; and Keen Mountain, Buchanan County, Va.

Invertebrate paleontology and paleobotany.—Many important accessions came to this division through gifts, exchanges, transfer from other government agencies, or as collections made in the field by members of the staff. The gifts brought in 19,716 specimens, the transfers totaled 253,607 specimens, the exchanges aggregated 4,487 specimens, and 861 specimens were collected for the Museum, making a grand total of 278,671 specimens for the year.

Important gifts include 75 type specimens of Foraminifera from Trinidad, from Dr. P. Bronnimann; 14 type specimens of Cretaceous Foraminifera and 39 type specimens of Paleocene Radiolaria from Dr. D. L. Frizzell; 600 slides of Recent Foraminifera from Dr. F. B. Phleger, Jr.; 58 type specimens of Foraminifera from the Lower Cretaceous of Algeria, from Dr. A. ten Dam; 309 Jurassic ammonites from Arabia, from the Arabian American Oil Co. through D. M. Brown; 1,000 Ordovician, Devonian and Mississippian invertebrate fossils from Guy Campbell; 51 slides of type specimens of Devonian ostracods from Iowa, from Lee B. Gibson; 150 specimens of invertebrate fossils from Mr. and Mrs. G. C. Higgins and Mr. and Mrs. A. L.

Bowsher; 2,500 specimens of invertebrate fossils from the Ordovician, Devonian, and Upper Paleozoic, from New Mexico Bureau of Mines and Mineral Resources through R. H. Jahns; 750 specimens of Pennsylvanian invertebrate fossils from north-central Texas, from Daniel Jarvis; 100 specimens from the Permian of México, from Dr. W. A. Kelly; 100 specimens of Silurian, Devonian, and Pennsylvanian brachiopods from Oklahoma, from J. T. Stevens; 60 specimens of Upper Cretaceous bryozoans from Kunrade, Holland, from Ehrhardt Voigt; 24 specimens of Jurassic brachiopods from Africa, from Maurice H. Wallace; 1,400 specimens of Middle Cambrian trilobites, mostly type and figured specimens, from Dr. Franco Rasetti; and 90 type specimens of Mississippian crinoids from Dr. L. R. Laudon.

Gifts from the Springer fund contain many crinoid types among the 228 specimens purchased. As in previous years the Walcott fund made possible the detail of several field parties. Material accessioned as gifts from this fund during the year include goniatites collected in the Glass Mountains, Tex., by Dr. G. A. Cooper and A. L. Bowsher; Upper Paleozoic fossils collected by A. L. Bowsher and W. T. Allen in Pennsylvania and Ohio; crinoids collected by A. L. Bowsher and Dr. Edwin Kirk of the U. S. Geological Survey in Alabama and Tennessee; foraminiferal and molluscan samples collected by Dr. A. R. Loeblich, Jr., and Dr. David Nicol in eastern Virginia; and invertebrate fossils collected by Dr. G. A. Cooper in the Southern Appalachians.

Transfers from the U. S. Geological Survey include 1,800 type specimens of Ozarkian and Canadian cephalopods described by A. K. Miller, the late Dr. E. O. Ulrich and other collaborators.

Vertebrate paleontology.—Of considerable scientific interest in vertebrate paleontology is the collection of about 270 specimens of small mammals secured by Dr. C. L. Gazin, under a grant from the Walcott fund, from various lower Eocene and lower Oligocene deposits of western Wyoming.

Mention should also be made of four small collections of fossil vertebrate remains transferred to the National Museum from the Smithsonian River Basin Surveys, made by Dr. T. E. White from various localities in North and South Dakota, Texas, and Montana. These finds include a Cretaceous mosasaur and a Paleocene pantolambdid from the Dakotas, and a representative collection of Oligocene and Miocene mammalian materials from the Canyon Ferry Reservoir area in Montana.

New acquisitions of lower vertebrate fossils include the partial skull of one of the rare marine crocodiles, purchased through the Walcott fund, and a small collection of well-preserved fish remains from the Gondwanic rocks of the Paraná Basin of Brazil, transferred

by the U. S. Geological Survey. A noteworthy gift by Mrs. R. Lee Collins from the materials collected by her late husband included the type of the Cretaceous turtle *Toxochelys weeksi*; remains of a Miocene sailfish, *Acanthocybium solandri*; and jaws of a Pleistocene bear, *Euaretos* sp.

EXHIBITION

The renovation of the mineral hall, begun during the previous year, was completed. Five cases of special exhibits, one each for calcite, fluorite, silicates, and carbonates; one for molybdates, sulfates, and borates; and a sixth relating to the geography of minerals, were installed. A special display entitled "What is a Mineral?" was also installed at the entrance to the mineral hall to introduce the exhibits. In it a mineral is defined and some of the principles of mineral and crystal formation are illustrated by large and striking specimens. The Dr. James Douglas collection of azurite and malachite from the famous mines of Bisbee, Ariz., was moved to a new case, more effectively supplementing the general collections.

For the hall of vertebrate paleontology, drawings and layout for two new-type cases were completed for exhibits depicting the "Nature of Fossils" and the "Kinds of Vertebrate Fossils," and diorama panels for one of these cases were prepared. Also, extensive repairs were made to the popular papier mâché model of the stegosaurian dinosaur, the interior framework of which was beginning to collapse.

CARE OF COLLECTIONS

The majority of the collections in the division of mineralogy are in good condition, and the progress of routine care has not slackened. The project of designating a specimen of each mineral species by a distinctive mark as a standard of that species, to be kept inviolate, has been continued. In the lapidary shop, 62 meteorites were cut, polished, and etched; 367 rocks, ores, and minerals were cut and polished; 128 thin sections were prepared; and 156 plaster bases for exhibition specimens were cast.

In invertebrate paleontology and paleobotany type specimens have been segregated from all collections in the immediate care of the division, except for the brachiopods, which have been awaiting accumulation of sufficient drawers to house them. The gastropod, pteropod, cephalopod, and ostracod type collections have been checked for missing specimens, and are now in good condition; the types in the Paleozoic part of the paleobotanical collections are being segregated as time permits; and preparation of a finding card catalog of the stratigraphic collections was started. Associate Curator A. R. Loeblich, Jr.,

has integrated nearly all of the Cushman collection of Foraminifera with the national collection, and all slides are now stored in flat-file steel cabinets. Much progress has been made in covering slides with full-length glass cover slips and aluminum holders, and in remounting many hundreds of slides, including types, that were in poor condition. This important collection is now completely available to researchers in this field.

In vertebrate paleontology attention has been focused on the lower Tertiary, or Paleocene and Eocene, collections, and during the past year large collections from Gray Bull lower Eocene of the Big Horn Basin and Knight lower Eocene of the Green River Basin have been identified, cataloged, and arranged in the general study series. Associate Curator D. H. Dunkle completed the rearrangement necessitated by the segregation of type specimens from the collections, and made progress on documenting the older fish collections. He finished cataloging the late Paleozoic ray-finned fishes, identified and labeled the Eocene teleostean genera *Erismatopterus*, *Amphiplaga*, *Asineops*, and *Trichophanes*, currently under study, and commenced sorting on an ordinal basis the undistributed portion of the large Springer collection of late Paleozoic sharks. The laboratory of vertebrate paleontology continued to devote much of its time to the preparation of the material of the giant ground sloth *Megatherium*, secured by field parties in Panamá in early 1950 and early 1951.

INVESTIGATION AND RESEARCH

Mineralogy and petrology.—The study of the development of Parícutin Volcano, México, was submitted by Head Curator W. F. Foshag to the U. S. Geological Survey for publication. The study of Mesoamerican jade objects in the collections in Guatemala, begun under a cooperative project of the Instituto de Antropología e Historia, Guatemala, and the Smithsonian Institution has been continued. Chemical analyses show that in spite of a wide range of color and optical properties, the mineralogical nature of the jade is quite uniform. A byproduct of the study of the archeological jades of Guatemala is a study of the natural system jadeite-diopside being carried out by Dr. Foshag, Associate Curator G. S. Switzer, and Joseph Fahey. New analyses and new optical data will add much to this important group of minerals. Drs. Foshag and Switzer continued their annual summary of the diamond industry, publishing the results for the year 1950 and accumulating the statistics for 1951.

Dr. Switzer continued his comprehensive study of the uranium minerals, a project being carried out for the U. S. Geological Survey at the Museum because of the excellent reference collections at hand.

He completed a reinvestigation of the obscure radioactive mineral guadarramite, which was shown to be ilmenite, and a crystallographic study of some complex fluorite crystals from México, and continued work on several other projects, including a reexamination of the rare and complex mercury mineral mosesite. He added 250 X-ray powder diffraction patterns of minerals to the reference catalog of these photographs. In order that these patterns be entirely reliable, the nature of the specimen must be authenticated, a determination that frequently involves some detailed investigation.

Associate Curator Henderson continued his investigations of the composition and classification of iron meteorites. Reexaminations were made of the following irons: Pittsburgh, Pa.; Breece, N. Mex.; Ballinger, Tex.; Yenberrie, Australia; Morita, México; Tombigbee, Ala.; Soroti, Uganda; and Cincinnati, Ohio. A study was also completed of the relationships and distribution of cohenite inclusions in iron meteorites.

Dr. Stuart H. Perry, associate in mineralogy, is engaged in preparing his seventh series of photomicrographs of iron meteorites.

Dr. John P. Marble, associate in mineralogy, continued his investigations on the absolute measurement of geologic time. As chairman of the Committee on the Measurement of Geological Time, of the National Research Council, he prepared the annual report of the committee, which includes, as usual, his comprehensive annual annotated bibliography of articles referring to this subject. He submitted to the National Research Council his report to the Commission on Atomic Weights, International Union of Chemistry, entitled "Natural Variations in Isotopic Ratios of the Chemical Elements."

Frank L. Hess, associate in mineralogy, continued his investigations of the origin of igneous nodules of the type commonly called "thunder eggs."

Invertebrate paleontology and paleobotany.—Curator G. A. Cooper completed the generic and specific description for his study of Chazyan and related brachiopods. A total of 268 plates was prepared to illustrate this report, which treats about 900 species and more than 150 genera. He completed the description of the Permian brachiopods collected from the vicinity of El Antimonio in Sonora, México, a work that will include a section on the fusulinids by Dr. C. O. Dunbar of Yale University, and another on the gastropods by Dr. J. B. Knight, and he also completed a short paper describing Cambrian and lower Ordovician silicified brachiopods from the Arbuckle limestone of Oklahoma. In the latter half of October, Dr. Cooper joined Dr. B. N. Cooper of Virginia Polytechnic Institute in a study of sections in the Southern Appalachians, an expedition that terminated Curator Cooper's field work on the Chazyan and related brachi-

opods. This party was particularly interested in determining facies relationships of the nonmarine Ordovician beds on the east side of the Appalachian Valley to the marine beds on the west side. In May Dr. Cooper and Prof. H. B. Whittington of Harvard University spent 4 days in the vicinity of Staunton, Va., searching for localities that might yield good silicified trilobite material.

During the year Associate Curator A. R. Loeblich, Jr., spent much of his research time in generic revisions. Nine papers, involving a revision of 17 genera were prepared, in part with Helen Tappan Loeblich, and submitted for publication in various journals. In addition, his studies of the Foraminifera of the Recent Arctic and of the American lower Cretaceous are nearing completion. In August he collected foraminiferal samples from uppermost lower Cretaceous and basal upper Cretaceous beds in northern Texas, and in November, with Associate Curator Nicol, he collected foraminiferal samples and mollusks from the Miocene (St. Mary's) formation in eastern Virginia.

Associate Curator A. L. Bowsher completed his field work for the study of Mississippian bioherms and stratigraphy of the Mississippian rocks of New Mexico, and is bringing to completion his paper on actinocrinitid crinoids. Accompanied by Museum Aid William T. Allen, he collected from Mississippian, Pennsylvanian, and Permian strata in the Sacramento Mountains, N. Mex. During this trip the party assisted members of the New Mexico Bureau of Mines. In late October, with Dr. Edwin Kirk of the U. S. Geological Survey, he spent about 10 days in Alabama and Tennessee collecting Mississippian crinoids. In April, with Museum Aid W. T. Allen, he collected Mississippian and Pennsylvanian fossils in northern Ohio and western Pennsylvania. This trip was made to obtain material for comparison with New Mexico faunas.

Associate Curator David Nicol published one paper on pelecypod systematics and taxonomy and has five others in press. He is now studying the systematic position of the pelecypod genus *Pliocardia* Woodring with the idea of perfecting its classification.

Research Associate J. Brookes Knight has in press his study of gastropod reclassification and is devoting himself to a study of the Permian snails and to supervising the work of three graduate students who are helping him to prepare the chapter on Paleozoic gastropods for the "Treatise on Invertebrate Paleontology."

Associate in Paleontology R. S. Bassler expects soon to submit his large manuscript on the Bryozoa to the committee for the Treatise.

Vertebrate paleontology.—In a field trip during the summer of 1951, Curator C. L. Gazin continued his investigation of and made further collections from the lower Eocene Knight formation in the Green River and Bridger Basins of southwestern Wyoming and se-

cured collections from lower Oligocene deposits in the Wind River Basin. The collections from the Knight lower Eocene, added to those of the seasons of 1941, 1948, and 1949, were the basis for a detailed study of the Knight faunas he completed during the year. Included in the study, in addition to the large collection made for the Smithsonian Institution, were materials in the American Museum and at Princeton University from this formation. The report on this investigation, which has been submitted for publication shows that there are four faunal horizons for fossil Mammalia in the original Wasatch, two in the Knight proper, one in Knight beds interfingering with Green River, and one in the Almy formation underlying the Knight.

Associate Curator D. H. Dunkle continued two long-range projects; a study of the Eocene Green River shale fauna, undertaken in collaboration with Dr. Bobb Schaeffer of The American Museum of Natural History, and the problems of the late Mesozoic origins of the teleostean orders of fishes. The first involves morphological study of each of the 36 specific members of the fauna, their taxonomic revision, review of geographic and geologic distributions, and an ecological analysis. The fauna is ideal for monographing on broad objective and subjective bases because large series of complete and beautifully preserved specimens are available. Current work is centered on the genus *Asineops*, the seventh of 15 genera to receive preliminary study. The second project has as its objective the determination of the phyletic lines connecting the late Mesozoic holostean ray-finned fishes with the descendent Tertiary and Recent Teleostei. To date a three-dimensional skull of the primitive teleost *Leptolepis* has been serially sectioned by the "peel method" and a wax reconstruction is in process of completion. At the present time he is engaged in developing a technique for etching suitable materials in acetic acid. In addition, he completed brief studies on some fragmentary remains of the arthrodiran fish *Dinichthys terrelli* Newberry, from the central mineral region of Texas, and on new Jurassic occurrences of fishes in México, and he made excellent progress on manuscripts dealing with new records of Permo-carboniferous fishes in Brazil and with the morphology of the Devonian arthrodire *Dinichthys herzeri* Newberry. During October 1951, he enjoyed a brief opportunity to examine reported Mexican occurrences of Cretaceous fishes at Xilitla, San Luis Potosí, and Tlaxiaco, Oaxaca, and to study collections at the Instituto de Geología in México, D. F.

Research by visiting investigators.—Dr. Teng-Chien Yen, a principal investigator for the Office of Naval Research, continued his studies of nonmarine fossil mollusca of Mesozoic and Tertiary age, with emphasis on their paleoecological environment, from the Rocky Mountain region.

As in past years, many investigators from this country and elsewhere were aided by the staff or used the Museum collections. Dr. T. W. Amsden, Johns Hopkins University, continued his study of Silurian (St. Clair) brachiopods from Arkansas. Dr. Franco Rasetti of the same university continued his studies of Cambrian trilobites and is a frequent visitor to the Museum laboratories. Dr. Norman D. Newell, American Museum of Natural History, is monographing a large collection of Permian pelecypods in the National Museum. Dr. John Hoskins, University of Cincinnati, has been loaned a large collection of fossil wood from the lower Mississippian rocks of Kentucky. Dr. Harry B. Whittington, Harvard University, is preparing a monograph on the silicified Ordovician trilobites collected by Dr. G. A. Cooper near Strasburg, Va. Dr. Erwin Stumm, University of Michigan, is preparing a monograph on Devonian trilobites of Michigan partly on National Museum materials. Dr. H. V. Anderson, Louisiana State University, worked in Foraminifera at the Museum. J. B. McLean, Jr., Alexandria, Va., visits the Museum to study collections and confer with the scientists. Dr. Ivar Hessland from Sweden spent several days on two occasions at the Museum studying Paleozoic ostracods.

Department of Engineering and Industries

(FRANK A. TAYLOR, *Head Curator*)

Improvement of exhibits, increases in the help given to students and inquirers, advances in the care and organization of collections, and solid progress in the study programs marked the year. The special exhibits of textiles, the established monthly exhibits in photography and the graphic arts, the Photography-in-Science competition, and the exhibits arranged for the meeting of the Early American Industries Association, afforded a full schedule of special events.

Edward C. Kendall, a specialist in the history of agriculture and industry, was appointed associate curator in charge of the sections of manufactures and agricultural industries. William E. Bridges, museum aide, entered military service.

ACCESSIONS

Crafts and industries.—Two fine examples of labor-saving machines that served the farmer before the general mechanization of farms were received. From Arden Wilson came a crank-operated fanning mill for separating chaff from grain and hulls from beans, used in West Virginia about 75 years ago; and from Warren Hammond, a 2-row, hand, corn planter dated about 1860. To the collection of modern fabrics were added examples of wool-back fabrics, from William Skinner & Sons, and fabrics illustrating fiber blending for better fabric performance, from Goodall-Sanford, Inc. A beautiful round tablecloth nearly 11 feet in diameter, made of linen eyelet lace and hand-made filet medallions, was received from the estate of Lena L. Jones. Edna Plummer presented 3 examples of hand-netted lace, and Mrs. Helen F. McMickle gave 8 pieces of American embroidery and drawn work of the eighteenth and nineteenth centuries. The section of wood technology received from the United States Forest Products Laboratory a collection of 17 woods of the United States and México, authenticated by herbarium material, and 8 new wood products resulting from laboratory research. Joseph L. Stearns presented 25 authentic woods of Indo-China.

Engineering.—An oil engine made before 1878 by George B. Brayton, American inventor and engine manufacturer, was presented by Brown University at the suggestion of Professor Emeritus William H. Kenerson. The engine, purchased of Brayton by the University about 1878 to drive an arc-light dynamo, is a 1-cylinder,

kerosene-burning beam engine, weighing about 1,500 pounds. It developed $21\frac{1}{2}$ horsepower at maximum performance. Brayton manufactured gas and oil engines for sale, and experimented with the use of them for the propulsion of boats and a street car. Stephen C. Van Fleet presented a collection of early radio apparatus including a complete 10-watt transmitter of 1922-23, a Jenkins Radiovisor of 1930, and a See-All television scanner. Eight scale models of early American automobiles were presented by A. J. Koveleski, bringing the total of models received from him to 16. A Cleveland motorcycle of 1918 was received from Russell and Richard Fiedler. Robert B. Applebee and Ralph E. Cropley continued to send additions to the collection of illustrations and notes on watercraft.

Graphic arts.—A series of stones and prints to illustrate the making of a lithograph, made by the artist Russell T. Limbach at the request of the National Museum, was acquired for use in the exhibited collections. Several notable prints were purchased through the Dahlgreen fund. Included are two niello prints of the fifteenth century, "Christ on the Cross" and "Portrait of a Pope." Goldsmiths, to observe the progress of their work in engraving on gold or silver, made these niello prints by filling the engraved designs with a black substance from which an impression on paper could be obtained by rubbing. These prints foreshadow line engraving and are of historical interest in the development of the graphic arts. The Dahlgreen fund purchase includes "Mountain Landscape," a wood cut by Ernst L. Kirchner; "Three Holy Kings," a wood cut by Karl Schmitt-Rottluff; and "Tightrope Walker," a dry-point by Max Beckmann. These artists were outstanding exponents of German Expressionism, an important influence in printmaking after World War I. Received from Dr. Lowrain McCrea was his original cystoscope camera. Dr. Doris M. Cochran presented a field photographer's outfit of the nineteenth century, including among its 52 pieces a Prosch shutter, a candle-burning safe light, and a dryplate camera. Mrs. Ella K. Ferguson, granddaughter of John R. Schorb, reputed to have been the first American commercial photographer, presented 5 tintypes, 3 daguerreotypes, 2 ambrotypes, 3 prints, and a glass plate negative, all Schorb's work.

Additions to the print collections include "Awakening," an engraving by Gabor Peterdi, and "Furnace," a wood engraving by Charles Quest, both purchased through the Dahlgreen fund, and "Winter," a lithograph by Russell T. Limbach, the gift of the artist. Notable gifts to the photographic print collection include 15 prints by Wood Whitesell and 14 prints by A. Aubrey Bodine, including his "Oyster Dredging During Squall," for which he received international recognition.

Medicine and public health.—Dr. Arthur O. Morton presented a keratometer or ophthalmometer, purchased in 1907, which he believes

is one of the oldest instruments of its kind used in the United States. Made by Pfister and Streit, Bern, Switzerland, it is designed to measure the curve of the cornea of the eye by measuring the amount of corneal astigmatism.

EXHIBITION

A major objective of the exhibition program of the department of engineering and industries is to reduce the number of items on display, so that it will be possible to highlight the more significant ones and to emphasize the contribution that each represents. Significant advances have been made by all divisions in this respect.

Crafts and industries.—Spinning wheels for flax and wool, with accessories for the preparation of the fibers used, were reexhibited in renovated cases against a background of colorful old textiles, creating what is in effect a new exhibit. Other new exhibits include one showing fiber blending for improved fabric performance and the method of weaving wool-back fabrics, and another of a series of original early plows presenting a graphic chronology of American plows. Also arranged were such special exhibits as "Two Hundred Years of Textile Design," a loan from the Scalmandré Museum of Textiles; a collection of authentic eighteenth- and nineteenth-century printed fabrics, all American subject designs, lent by Elinor Merrell; and "Victorian Slumber Throw," a group of silk crazy-patch quilts from the Museum collection. A display of early American baskets and one on early American textile design were prepared in connection with the fall meeting of the Early American Industries Association. These two are now permanent exhibits.

Engineering.—The models and accessories in the cases lining the walls of the automobile and transportation halls were reexhibited in renovated cases. By painting the interiors a lively color, replacing wooden shelves with glass, and installing more readable labels a considerable improvement was made in the over-all appearance of these cases, which form the background for the large original automobiles, locomotives, and carriages standing in the halls. In the communications gallery an interesting grouping was achieved with a commercially licensed radio station of 1922 and a recently received amateur station of the same date, while eight other cases were renovated and provided with individual lighting. A new exhibit of early phonographs concisely states the contributions of Edison, Bell and Tainter, and Berliner, and notes the early use of the phonograph as a dictating machine. Single-case exhibits, one of American combination locks and another of development models of old wood-screw-making machines, were prepared for the annual meeting of the Early American Industries Association, and were later placed in the tool gallery.

Graphic arts.—The methods and techniques of lithography were displayed in a new exhibit based on material prepared by Russell T.

Limbach and a start was made on a companion exhibit tracing the history of this art. Several other cases were temporarily reworked in the same gallery. The new special exhibits gallery of the section of photography, completed this year, has proved quite successful as a small gallery for the exhibition of photographic prints, and offers hope for the effective use of otherwise unpromising space in the old building. Contributions of Niepce, Daguerre, and Talbot to the development of photography are shown in the first unit of the revision of the exhibits devoted to the history of photography. A special exhibit on photogrammetry was prepared for the annual convention of the American Society of Photogrammetry.

SPECIAL EXHIBITS—DIVISION OF GRAPHIC ARTS

GRAPHIC ARTS

1951

Fuchs and Lang Collection	Lithographs from the permanent collection	July 16–September 3
John C. Rogers	33 wood cuts and drawings	September 4–September 30
Gabor Peterdi	37 intaglio prints	October 1–October 28
Charles Quest	30 wood engravings and wood cuts	October 29–November 25
Sid Gotcliffe	35 linoleum cuts and lithographs	November 26–January 6

1952

Rudolf Weissauer	27 linoleum block prints	January 7–February 3
José Guerrero	20 etchings and monotypes	February 4–March 2
W. L. Choi	22 wood engravings	March 3–March 30
I. J. Sanger	37 prints	March 31–April 27
Milton Hirschl	24 various prints	April 28–May 25
Masterpieces of Printmaking	Various prints from the permanent collection	May 26–June 22

PHOTOGRAPHY

1951

A. Aubrey Bodine	95 pictorial photographs	July–September
Wood Whitesell	59 pictorial photographs	September
Harry K. Shigeta	50 pictorial photographs	October
The National Speleological Society, 4th International Salon	62 pictorial photographs	November
National Photographic Society, 1951 Annual Salon	55 monochrome prints and 73 color transparencies	December

1952

<i>Popular Photography</i> Magazine Traveling Salon	108 pictorial photographs	January
Edward Bafford	85 pictorial photographs	February
Gottlieb A. Hampfler	50 pictorial photographs	March
Herbert B. Woodling	40 pictorial photographs	April
José Ortiz Echague	76 carbon fresson prints	May, June

CARE OF COLLECTIONS

About 9,000 samples of woods were cut down in size, die-stamped, and redistributed in the process of reducing the bulk of the woods collection, and improving the ease of using it while retaining all of the scientific value of the collection. About 200 mats were made for prints in the graphic arts collections, and the storage space and equipment in the office area was reorganized and improved. Many objects in the exhibited collections and others acquired or brought from storage were cleaned, repaired, and restored. A commercial mildew inhibitor used in house paint appears to be controlling mildew and fungus in stored collections. It is mixed with the preservative oils applied to leather and wood parts.

INVESTIGATION AND RESEARCH

Crafts and industries.—William N. Watkins, curator and wood anatomist, assisted the staff of Colonial Williamsburg in an investigation of the origins of early furniture pieces through study of the woods of which they are made. The study of the secondary woods of furniture appears likely to become an important technique in furniture authentication, and promises to create a new and continuing demand upon wood anatomists for identifications. Mr. Watkins visited the U. S. Forest Products Laboratory to observe the use of machine records equipment in the identification of woods and to arrange exchanges of material for the woods collections.

Assistant Curator Grace L. Rogers continued her work on the history of the sewing machine and made a number of extended investigations into textile history and practices, including those needed to produce the revised exhibit of spinning wheels and the exhibit, "Victorian Slumber Throw."

Associate Curator Edward C. Kendall made good progress on his investigation of the evolution of American types of plows from early European ones, a subject of which little apparently is known. Mr. Kendall has also succeeded in discovering the source of a collection of nearly 400 plow models which came to the Museum in 1910 from the Department of the Interior. Through his efforts it was learned that at least several such collections, one of which is now at Cornell University, had been constructed at the Landwirtschaftliche Hochschule Hohenheim, in Germany, in the 1860's, and that apparently they were made under the supervision of Prof. Ludwig Rau, who in 1881 published a catalog of such a collection. Oddly enough a copy of this catalog was eventually found in the library of the Bureau of American Ethnology among some books bequeathed to the

Smithsonian Institution in 1887 by Charles Rau, onetime curator of archeology in the U. S. National Museum.

Engineering.—Associate Curator Kenneth M. Perry continued his studies leading to the publication of a descriptive catalog of the electrical meters in the collections.

Associate Curator S. H. Oliver examined the large collection of letters, clippings, catalogs, and illustrations relating to the history of transportation and engineering left to the Institution 48 years ago by J. Elfreth Watkins, onetime curator of transportation. The material was sorted, evaluated, and distributed to reference files or to interested sections of the Institution. During a vacation trip to Europe he studied techniques of preserving and exhibiting engineering relics in the following museums: Deutsches Museum, München; automotive museum of the Daimler-Benz Aktiengesellschaft, Stuttgart; Musée de la Voiture, Compiègne; Musée Royal de l'Armée, Bruxelles; and The Science Museum, London.

Graphic arts.—Curator Jacob Kainen continued the preparation of his history of all photomechanical methods of printing pictures, such as letterpress halftone, photogravure, photolithography and collotype, a study that will include a descriptive catalog of the collections. His preliminary study of the halftone screen, published last year, was revised and enlarged for reprinting.

Associate Curator Alexander J. Wedderburn progressed in his study of the history of the camera, visiting the George Eastman House, Inc., and the Museum of Modern Art for aid in this work. A draft of the first section, "The Camera Obscura, 300 B. C.—1802," was completed.

Research by visiting investigators.—In all, the staff received about 1,600 visitors to the offices, about 2,500 letters, and about 3,000 telephone calls, seeking information and identifications. More than 1,800 photographs were sold, lent, or given to publishers, writers, collectors, schools, museums, and historical societies. In providing this service, the staff assisted inquirers in the use of the files, in selecting and ordering prints, and in the providing of correct titles. Among the many individuals who made important use of these facilities were Howard I. Chapelle, whose "American Small Sailing Craft," recently published by W. W. Norton and Company, Inc., is based in part upon his continuing study over a very long period of the unique group of contemporary models of small craft in the watercraft collection; Dr. Domingo Corro, chief of the wood section, Museo Argentino Ciencias Naturales, Buenos Aires, who examined the wood collections and discussed further study and cooperation; Helen Comstock, research editor of *Antiques*, and E. Milby Burton, director of the Charleston Museum, who are investigating the secondary

woods used in colonial furniture, being particularly interested in the range of species and separation of the woods; Daniel Tower, recently appointed curator of the Old Slater Mill Museum, who spent several days studying the textile collections and discussing museum problems with Miss Rogers; Lady Tansley, of Grantchester, Cambridge, England, who is sponsoring a needlework organization in her country, and who spent two days studying quilts and other early American needlework; Baron René de Kerchove, who discussed the preservation and eventual publication of Commandant L. Audemard's remarkable manuscript and colored drawings of Chinese junks, placed in the Baron's care; Mrs. Hope Easton, at the time associate editor of *Reader's Digest*, who spent several days examining the collections and files for little-noticed chapters of the history of invention; Harold W. Cramer, who continued to examine and restore time and combination locks from the collection, afterward photographing them in operation for a motion-picture history of American locks; and Vernon Dameron, director of education of the Edison Institute, who discussed with the staff the function of extension services of technological and craft museums.

Department of History

(MENDEL L. PETERSON, *Acting Head Curator*)

The major activities of the past year have centered around the modernization of all the exhibition halls and storage areas in which the history collections are housed. The first of these, the hall of naval history, was opened in June and its favorable reception by visitors to the Museum is indication of the need for further efforts in this direction.

The division of naval history has expanded its activities with a program of study of early shipwreck sites in the Florida Keys. This research conducted by the curator, Mendel L. Peterson, promises to produce valuable information on seventeenth- and eighteenth-century ships and naval armament from hitherto untouched sources.

ACCESSIONS

Among the more than 7,000 specimens added to the collections during the year, an outstanding item was a chest of drawers once owned by Jonathan Edwards, New England scholar and theologian (1703-1758). This chest, in fine condition and with all of the original brasses, came as a gift from Miss Louise Taylor Andrews. The transfer from the Department of the Navy of models of the *Bon Homme Richard*, Frigate *Constitution*, Sloop *Kearsarge*, Cruiser *Olympia*, Cruiser *Brooklyn*, Destroyer *Manley*, and Heavy Cruiser *Wichita* make the collection of ship models exhibited in the hall of naval history one of the finest in this country. Coming as a bequest from General of the Army John J. Pershing were his saddles and horse equipment. Also received was the General's library of some 1,800 volumes, a gift from his son, Francis Warren Pershing. To the numismatic collections were added 12 medals awarded to the American artist Edmund C. Tarbell (1862-1938), received as the gift of his heirs. Transferred from the Treasury Department was the Reverend Hugh Miller collection of 544 Oriental coins and 110 Korean amulets, containing many pieces that have never been described.

The philatelic collections were increased by transfers from the U. S. Post Office Department, and gifts from agencies of other governments. Important gifts from individuals included dies used (1853-1870) by George F. Nesbitt and Company in the production of early United States envelopes, the gift of B. H. Homan, Jr., of New York City. The philatelic library was increased by important

material received as gifts from the Essay-Proof Society, the Bureau Issues Association, Scott Publications, Inc., the Collectors Club of Washington, and Malcolm MacGregor.

EXHIBITION

As part of the department-wide program of exhibit improvement carried on during the year, the interiors of the wall cases in the costumes hall were refinished, in preparation for the installation of a renovated exhibition of American period costumes, and interior lighting was installed in the case in which the Bradford miniature house (period 1900-1914) is displayed. The hall of naval history was completed with the installation of the collection of naval prints, paintings, photographs, ship models, and related objects. It was formally dedicated on June 19, 1952, at a special ceremony attended by high officials of the Department of the Navy. This exhibition illustrates the development of the United States Navy from its beginning to the present day. Tentative plans were laid for a similar hall of military history, to be set up in cooperation with the Department of the Army. Installation of the Paul A. Straub collection of gold coins continued. Work on the exhibit of orders and decorations was completed, all of them having been cleaned, relabeled, and arranged according to country and class. To the philatelic exhibits were added displays of such materials of special interest as postage stamps used in decorative art, processes of postage stamp production, "free" franks of the Presidents and the widows of Presidents, and an exhibit of models illustrating the carrying of the mails. During the year an exhibit of ship cancellation covers and models of related ships was installed.

CARE OF COLLECTIONS

The regular program of protection of specimens against insect, dust and light damage continued. To protect the manuscripts of the Adams-Clement collection, which are exhibited in cases exposed to bright natural light, Associate Curator Margaret W. Brown selected Libbey-Owens-Ford "golden plate glass," which disperses the ultra-violet rays that cause inks to fade. The necessary glass was graciously given to the Museum by the manufacturer. Extensive cleaning and repair of ship models and paintings exhibited in the hall of naval history was accomplished as these specimens were installed. Techniques for restoring and preserving objects recovered from sea water were developed in connection with the marine exploration being carried on in Florida. The process of cleaning and preserving silver coins recommended in 1948 by Dr. William Bloom, of the U. S. Bu-

reau of Standards is being used with marked success; none of the specimens so cleaned and lacquered show any tendency to tarnish.

Specimens in the philatelic collections widely scattered among the storage units have been brought together and collated in new stock books by Assistant Curator Franklin R. Bruns, Jr. A complete set of Scott specialty albums was donated by Gordon Harmer of Scott Publications, Inc.

INVESTIGATION AND RESEARCH

Acting Head Curator Mendel L. Peterson continued his long-range studies of the development of the United States vessel of war and the evolution of the United States naval uniform, producing under the latter project a paper, "The History of the Navy Cross," scheduled for publication in *The Numismatist* for September 1952. His research led to the identification of one of the shipwrecks investigated in 1951, the British 44-gun Frigate *Looe*, which ran aground February 5, 1744. Results of this investigation will be published early next year. He also engaged in an extensive study of the early shipwreck sites in the Florida Keys area under a grant from E. A. Link, of the Link Aviation Corporation, who is personally participating in the field work. Two projects directly related to this marine exploration in Florida were initiated. The first involves the markings and decorations of muzzle loading cannon, the barrels of which are often the most prominent and important objects found on shipwreck sites and form a means of determining the size of the vessel, its nationality, and period. During the year Mr. Peterson investigated the cannon collections of the U. S. Military Academy, the Mariners' Museum, and the Naval Gun Factory. This investigation will be continued by him in the collections and archives of museums in London, Paris, Leyden, Madrid, Seville, and Copenhagen. The second of these projects involves the restoration and preservation of objects recovered from sea water, a subject of which no adequate study appears to have been made in this country. Objects of iron, particularly of cast iron, after being immersed in sea water for prolonged periods often disintegrate upon drying out. As a result many objects of importance have been lost to the historian after recovery. Laboratory experimentation on removal of sea salts and reduction of oxidized layers has resulted in the development of a routine which promises to be completely successful. Mr. Peterson also continued his investigations of military small arms and of the uniforms and insignia of the U. S. Army.

Stuart M. Mosher, associate curator of numismatics, continued his important project of reattributing and rearranging the 62,763 specimens in the national numismatic collections.

Margaret W. Brown, associate curator of civil history, continued her revision of the "Catalog of Washington Relics in the U. S. National Museum," and prepared a special study of the George Washington memorial medal that will be published during the coming year. Her paper on the medals awarded to Carrie Chapman Catt was published in *The Numismatist*. She read the final proofs of her book "The Dresses of the First Ladies of the White House." Data on the Adams-Clement collection obtained by Miss Brown in a trip to the Adams house at Quincy, Mass., will contribute to the value of the catalog to be prepared on this material.

Franklin R. Bruns, Jr., assistant curator of philately, published seven articles and one book during the year. Two other articles were accepted for publication. In addition, he continued his research on a number of subjects, including Liberian postal history, a catalog of the National Museum philatelic collection, and a catalog of the Michel collection. During the year he was appointed editor of the American Philatelic Congress, and was made honorary member of the Bureau Issues Association.

Research by visiting investigators.—Among outside investigators working on the collections in the division of military history were Lt. Col. Farber of Wright Patterson Air Force Base, Dayton, Ohio; Lt. Col. Berkley R. Lewis, Ordnance Department, U. S. Army; and John J. Styers, close-combat expert of the U. S. Marine Corps. James C. Risk of the U. S. Department of State, an authority on orders and decorations, under the supervision of the curator of numismatics completely reworked the museum collections of decorations, re-attributing and documenting each piece. Mrs. E. M. Nelson of the American Home Economics Association worked on the civil history collections. H. D. Mitchell, editor of the *Costa Rican Philatelist*, made use of the National Philatelic collections and assisted in the reclassification and remounting of the Costa Rica stamps and postal stationery. Capt. Robert Scherer continued his work on the postal stationery of Iceland.

Accessions

During the Fiscal Year 1951-52

(Except when otherwise indicated, the specimens were presented or were transferred, in accordance with law, by the Bureaus of the Government)

ABBOTT, DR. DONALD P. (See Hopkins Marine Station.)

ABBOTT, GERTRUDE, ESTATE OF, Philadelphia, Pa.: (Through Fidelity-Philadelphia Trust Co.) Wooden walking stick used by Napoleon Bonaparte at St. Helena (189643).

ABBOTT, GORDON C., Taxco, México: 16 volumes of *The Photo-Miniature*, and 1 volume of *Camera Notes* (191685, exchange).

ABBOTT, DR. P. H., Wad Medani, Sudan: 2 fresh-water shrimps and 165 miscellaneous beetles and bugs from near Yambio, Sudan (193067).

ABBOTT FUND, W. L., Smithsonian Institution: 1,073 bird skins, 9 bird skeletons, 6 sets of bird eggs (8 eggs), 5 mammals, 1 salamander, 10 mollusks, and 9 plants from Colombia, collected by M. A. Carriker, Jr. (192963); 675 bird skins, 1 bird nest, 9 bird eggs, 9 bird skeletons, 5 birds (alcoholic specimens); 2 mammals; 13 mollusks from Panamá collected by Dr. A. Wetmore and Watson M. Perrygo (194285).

ABE, TOKIHARU, Tokyo, Japan: 2 eels (193254).

ABRAHAM, HENRY, Brooklyn, N. Y.: 2 scale models of Baltimore & Ohio mail cars (193828, 194607).

ABRITIS, JOHN J., Shoreham, N. Y.: United States flag of period 1890-91 (194251).

ACADEMY OF NATURAL SCIENCES OF PHILADELPHIA, Philadelphia, Pa.: 1 plant (182632); spotted babbler (192-315, exchange); 1 ovenbird (192855, exchange); (through J. A. G. Rehn) 6 grasshoppers from Old World (191778); 7 ants (192603, exchange); through Dr. A. A. Olsson) 1 right valve of pelecypod from St. Marys Miocene formation, Urbanna, Va. (192655, exchange).

ACZÉL, DR. MARTIN, Tucumán, Argentina: 24 fruit flies from Neotropics (193760, exchange).

ADAMS, DR. C. D., Achimota, Africa: 67 ferns from the Gold Coast (194373, exchange).

AGRICULTURE, U. S. DEPARTMENT OF, Washington, D. C.—Bureau of Plant Industry, Soils, and Agricultural Engineering: 1 grass from Wisconsin

(192070); 191 miscellaneous cultivated grasses (192090); 94 plants from Colombia (192287); 284 plants collected in Columbia and Ecuador by Cinchona Project (192923, 193090); 120 grasses of Turkey, cultivated at Ames, Iowa, collected by A. F. Dodge (193081); 1,200 plants from Tingo María, Perú (193743); (through Dr. Etlar L. Nielsen) 267 grasses (192922). *National Arboretum*: 7 plants from Colombia (192707); 1,000 bryophytes collected in India by Walter Koelz (194368); (through Dr. W. A. Archer) 567 ferns from South America (192866). *Bureau of Animal Industry*: (Through Dr. Rex W. Allen) 4 kangaroo rats from New Mexico (194247). *Bureau of Entomology and Plant Quarantine*: 12 land mollusks from Guatemala and New York (191442, 194588); 5 land mollusks from Trinidad, British West Indies, and Saipan, Mariana Islands (191870); 29 land mollusks from Massachusetts and North Dakota (192143, 192252); 3,000 miscellaneous insects from Texas collected by Ashley B. Gurney (193229); 20 plants collected in Belgian Congo by J. M. McGough (194759); 370 flies from Africa (194899); (through C. F. W. Muesebeck) 2 amphipods, and 8 isopods from France and Venezuela (192602); land snail from Brazil (192645); 54 land and fresh-water mollusks, 3 insects, and 1 leech from Thailand, collected by Mrs. Ernestine B. Thurman (193790); 19 land and fresh-water snails from the Hawaiian Islands and North Dakota (194183); 61,200 miscellaneous insects from all over the world (194904); (through Dr. Reese I. Sailer) 1,949 miscellaneous insects, 9 snails, and 1 crustacean from Alaska, collected by Dr. Sailer during June and July, 1951 (192202). *Forest Service*: 12 plants from Alaska (191484); 1 phanerogam type specimen (191998); 17 woods of the United States and México, authenticated by herbarium material at Forest Products Laboratory, Madison, Wis. (193094); 8 samples of wood products showing results of research at Forest Products Laboratory (194852). *Soil Conserva-*

tion Service: 2 grasses from British Guiana collected by P. A. Chan Choong (191001); 3 grasses from Alabama and Louisiana (192172, 193744).

AGRICULTURAL AND MECHANICAL COLLEGE OF TEXAS, College Station, Tex.: 14 grasses from Texas (192844, 194006).

AJELLO, F., New York, N. Y.: 11 model railway and baggage cars; 14 pieces of track (193515, loan).

ALABAMA POLYTECHNIC INSTITUTE, Auburn, Ala.: 1 grass from Alabama (192001); (through J. S. Dendy) land snail from Alabama (192467).

ALBANESE, JOHN S., Newark, N. J.: 7 minerals including beryl from Uganda, tourmaline and actinolite from Kenya, prehnite and zeolites from Scotland, and travertine from the Hawaiian Islands (192096).

ALDRICH, DR. JOHN W. (See U. S. Department of the Interior, *Fish and Wildlife Service*.)

ALEXANDER, DR. C. P., Amherst, Mass.: 147 craneflies from all over the world (194903).

ALLARD, H. A., Arlington, Va.: 398 plants collected in Virginia and West Virginia (193346).

ALLEGHENY COLLEGE, Meadville, Pa.: 9 plants from Florida (194210).

ALEN, J. FRANCES, and LITTLEFORD, ROBERT A., College Park, Md.: 40 marine mollusks from Maryland (194111).

ALLEN, J. M. (See Cora Thomas.)

ALLEN, PERRY B., Brentwood, Md.: Meerschm cigar holder in case (193988).

ALLEN, DR. REX W. (See U. S. Department of Agriculture, *Bureau of Animal Industry*.)

ALLEN, ROBERT P., Tavernier, Fla.: 255 land and marine mollusks from West Indies and Yucatán (191924); 156 marine, land, and fresh-water mollusks; 12 crabs from Oriente Province, Cuba (194048).

ALLEN, ROSAMOND, South Duxbury, Mass.: Full dress uniform chapeau owned by Maj. Gen. Joshua Lawrence Chamberlain during the Civil War (191253).

ALLEN, MRS. SARA WILDER, Tilton, N. H.: Pair of lady's bronze kid slippers; pair of lady's bronze kid and cloth boots, period of the last quarter of the nineteenth century (192011).

ALLEN, DR. VICTOR T., St. Louis, Mo.: sample of anauxite from Ione formation, Mokelumne River, Amador County, Calif. (192470).

ALLISON, W. B., Meridian, Miss.: 3 plants collected in Mississippi (193387).

ALVERSON, DAYTON L. (See U. S. Department of the Interior, *Fish and Wildlife Service*, and University of Washington.)

AMANO, TETSUWO, Neha, Okinawa: 306 plants collected in the Ryukyu Islands (193252, 193618, 194660).

AMERICAN MUSEUM OF NATURAL HISTORY, New York, N. Y.: 1 paramelaconite (194600, loan); (through Mont A. Cazier) 20 beetles from Bahamas (192977, exchange); 103 beetles from Bahamas (193751); (through Dr. Frederick H. Rindge) 5 moths from southwestern United States (193630, exchange).

AMERICAN NUMISMATIC ASSOCIATION, New York, N. Y.: (Through Vernon L. Brown) 147 coins of foreign countries, acquired for addition to the Moritz Wormser Memorial Collection (191905, loan).

AMERICAN PETROLEUM INSTITUTE, New York, N. Y.: (Through Elton L. Puffer) Approximately 12 gorgonians, 19 brittlestars and 11 starfishes from Texas (192765, 194404).

AMSDEN, DR. T. W., Baltimore, Md.: 11 brachiopods from the Silurian of western Maryland (194855).

ANDERSON, MRS. E., Washington, D. C.: Indian bullet pouch (194784).

ANDERSON, CAPT. H. V., Alexandria, Va.: 40 Recent Foraminifera from Louisiana (193575, exchange).

ANDREWS, DR. JAY D. (See Virginia Fisheries Laboratory.)

ANDREWS, LOUISE TAYLOR, Warren, Ohio: A walnut chest of drawers owned by Jonathan Edwards (1703-1758) (193305).

ANGE, FREDERICK, Wilson, N. C.: 52 potsherds and arrowheads from village site near Plymouth, N. C. (193149).

ANONYMOUS: Adjustable double-end wrench, ca. 1856 (192969); 1 bird (194470, found in the collection); 248 bird tongues and tracheae in alcohol (194549, found in the collection); 8 partial bird skeletons, 6 eggs, and 1 nest (194595, found in collection).

ANTHONY, PROF. JOHN W. (See University of Arizona.)

ARABIAN AMERICAN OIL CO., New York, N. Y.: (Through D. M. Brown) 309 Jurassic ammonites from Saudi Arabia (194620).

ARCHBOLD BIOLOGICAL STATION, Lake Placid, Fla.: 2 grasses from Florida (192842); 1,133 plants collected in Florida by L. J. Brass (193936).

ARCHER, DR. W. A. (See U. S. Department of Agriculture, *National Arboretum*.)

ARCTIC INSTITUTE OF NORTH AMERICA, Washington, D. C.: 1,419 plants collected in Alaska by L. A. Spetzman (191650).

ARIZONA, UNIVERSITY OF, Tucson, Ariz.: A grass from Arabia, cultivated in Arizona (192687); (through Prof.

John W. Anthony) tsumebite from Morenci, Ariz. (194103).

ARKANSAS, UNIVERSITY OF, Fayetteville, Ark.: 4 grasses from Arkansas (193145); (through Dr. John A. Sealander) 2 cotton mice from Cedar Glades, Ark. (192585).

ARKANSAS STATE COLLEGE, State College, Ark.: 2 grasses from Mississippi (191270); 920 plants collected in Arkansas and Mississippi by Prof. Delzie Demaree (191314, 193159, 193669); 152 grasses from Arkansas (193082).

ARMSTRONG, Mrs. JAMES, Washington, D. C.: 2 antique linen scarves long in possession of donor's family (194281).

ARP, Lt. Col. DAVID M., Washington, D. C.: Skull of grizzly bear from British Columbia (192501).

ASANO, Dr. KIYOSHI, Sendai, Japan: 5 foraminifers from the Tertiary of Japan (191683); 4 Recent Foraminifera from Hokkaido, Japan (193919, exchange); foraminifer from Tertiary of Japan (193508, exchange).

ASCHEMEIER, CHARLES R., Washington, D. C.: Gray fox from Lanham, Md. (193258).

ASLAKSON, Comdr. CARL I., Cocoa, Fla.: 327 marine and land mollusks from Florida, Bahamas, and Puerto Rico (191458, 194881).

AUCKLAND INSTITUTE AND MUSEUM, Auckland, New Zealand: 81 grasses from New Zealand (192248); 548 plants mostly collected in New Zealand (192289, exchange).

AUFFENBERG, WALTER, Gainesville, Fla.: Type blacksnake from Florida (194523).

AUSTRALIAN GOVERNMENT TRADE COMMISSIONER, OFFICE OF THE, New York, N. Y.: (Through E. P. McClintock) George VI Australian postage stamp (192850); (through R. Hazzard) 39 Australian stamps including single issues and blocks of four (192938, 192953, 193720, 194184).

BAFFORD, EDWARD, Towson, Md.: 85 pictorial photographs for special exhibition during February 1952 (193391, loan); 6 Bromoil process prints (194044).

BAILEY HORTORIUM, Cornell University, Ithaca, N. Y.: 17 grasses from México (189305, 192927); (through Dr. H. E. Moore, Jr.) 7 Mexican ferns (192696).

BAILEY, Dr. NORMAN S., Boston, Mass.: 8 bugs (193753).

BAIR, CHARLES R., Penney Farms, Fla.: 3 color photographs of the plant *Ixia* (192652).

BAIRD, MABEL E., Silver Spring, Md.: 1 worm from a water bug from Silver Spring (193907).

BAIRD FUND, SPENCER FULLERTON, Smithsonian Institution: 183 mammals from Labrador (193834, purchase).

BAJKOV, Dr. A. D. (See Oregon Fish Commission.)

BALL, Dr. CARLETON R., Washington D. C.: 2 plants from California (192840).

BALTARS, EDWARD, Baltimore, Md.: 24 plants from Maryland (193938).

BARBOSA, Dr. FREDERICO SIMÕES. (See Instituto Aggeu Magalhães.)

BARNARD, Dr. KEPPEL H. (See South African Museum.)

BARNARD, Dr. TOM, London, England: 27 slides of Jurassic Foraminifera from the Dorset Coast of England (193491, exchange).

BARNES, VENTURA, Jr., Mayagüez, P. R.: 44 birds and 2 mammals from Venezuela (191717).

BARNEY, ALICE PIKE, DAUGHTERS OF, Paris, France: (Through Mrs. Laura Dreyfus-Barney) 10 specimens of ecclesiastical and secular art consisting of brocaded and embroidered Italian and Spanish clerical vestments, a silver chalice, Sheffield-plated vessels, and a Spanish dagger, from the Dreyfus-Barney collection (191430).

BARTLEY, FLOYD, Circleville, Ohio: 141 plants from Ohio and West Virginia (192813).

BARTSCH, Dr. PAUL, Lorton, Va.: Cardinal, hairy woodpecker, winter wren, cedar waxwing, and junco from Virginia (192767, 194550); a star-nosed mole from Lorton (194882).

BATCHELDER, Mrs. PHILIP, Rumford, R. I.: A silk "crazy patch" quilt with hand-painted, flower designs, made about 1880 (192928).

BATCHELLER, Mrs. HILAND G. (See Jessie McElroy.)

BATIGNE, RENÉ, Washington, D. C.: 4 folios composed of 4 etched illustrative plates and 4 plates of lettered text by Prinmer, excerpted from Prinmer's hand printed version of the Egyptian religious work, "The Book of the Dead" (193747).

BAUGHMAN, J. L. (See Texas Game, Fish and Oyster Commission.)

BAXTER, Prof. G. P., Cambridge, Mass.: (Through Dr. John P. Marble) A schroeckingerite (dakeite) specimen from Red Desert, Wyo., and 1 of leucite from Mt. Vesuvius, Italy (192179).

BEAL, R. S., Jr., Berkeley, Calif.: 18 beetles including a holotype from United States (192942).

BEAMER, Dr. R. H., Lawrence, Kans.: 4 leafhoppers (191417). (See also University of Kansas.)

BEAVERS, JAMES, Alexandria, Va.: 1 black widow spider with her young from Virginia (193756).

BECK, Mrs. R. G., Escondido, Calif.: 98 marine mollusks from Cholla Bay, Sonora, México (191780, exchange).

BECK, WILLIAM M., Jr. (See Florida State Board of Health.)

BECKER, J., Porto Alegre, Brazil: 42 bugs from Brazil (193956).

BELKIN, Dr. JOHN N., Los Angeles, Calif.: 14 pinned and 18 slides of mosquitoes including holotypes and allotypes of 5 species from Solomon Islands (192990).

BELL, EDWIN L., Champaign, Ill.: Approximately 50 ticks from the United States (194902).

BENN, JAMES H., Washington, D. C.: 1 sponge from Edisto Island, S. C. (192879).

BENNETT, F. L., Spearfish, S. Dak.: A grass (191627).

BEQUAERT, Dr. JOSEPH. (See Harvard University, *Museum of Comparative Zoology*.)

BERGER, ANTON, Vienna, Austria: 2 minerals from Germany and Hungary (194795, exchange).

BERL, HERBERT, Washington, D. C.: 5-mark watermarked postage stamp of Germany, 1906 (191902).

BERLAND, Dr. L. (See Muséum National d'Histoire Naturelle.)

BERMUDA BIOLOGICAL STATION, St. George's, Bermuda: (Through Dr. W. H. Sutcliffe, Jr.) 130 miscellaneous invertebrates from Bermuda (192736).

BERMUDEZ, Dr. P. J., Caracas, Venezuela: 6 type Foraminifera from the Oligocene of Cuba and Eocene of Mississippi (194415).

BERNARD, Mr. and Mrs. MAURICE, Paris, France: 5 bows and 9 arrows obtained in 1941 by donors from a chief of the Uaymira (Waimiri) Indians from the upper Camanaú River Territory of Amazonas, Brazil (191669).

BERSE, C. B., Washington, D. C.: 14 Israeli stamps (194606).

BERTOVITCH, MATHEW, Masontown, Pa.: A phanerogam (191387).

BIANCHI, FRED A., Honolulu, T. H.: 4 thrips from New Caledonia (194775).

BIDEAUX, RICHARD, Tucson, Ariz.: 2 minerals: bisbeeite and shattuckite from near Bisbee, Ariz. (194766, exchange).

BIGELOW, Dr. HENRY B., and SCHROEDER, WILLIAM C., Cambridge, Mass.: Drawings for 106 figures published in Vol. 1 "Fishes of the Western Atlantic," Memoir Sears Foundation for Marine Research, 1948 (194596).

BIGGS, Rev. H. E. J., Bromley, Kent, England: 78 marine, land, and fresh-

water shells from Iran, Egypt, and Turkey (193505, exchange).

BISHOP MUSEUM, BERNICE P., Honolulu, T. H.: (Through Yoshio Kondo) 45 land mollusks from the Marshall Islands (193117, exchange); (through Dr. C. H. Edmondson) fragments of a hydroid and of 3 species of octocorals from Java (194646).

BISSON, THEODORE, Seattle, Wash.: A micrometer (millimeter) caliper marked "Palmer" (191799).

BLACK HILLS TEACHERS COLLEGE, Spearfish, S. Dak.: 13 plants collected in México by M. S. Hallman (193671).

BLACKMAN, EDGAR C., Falls Church, Va.: Fossil Miocene whale skull collected by donor north of Calvert Beach, Md. (194203).

BLAIR, JOHN, University, Miss.: 10 shrimps (192071).

BLAKESLEE, Capt. THEODORE E. (See Department of Defense, *Department of the Army*.)

BLANDFORD, NED, McLean, Va.: 2 minerals: prehnite from Fairfax Quarry, Centerville, Va.; bertrandite from Beryl Mountain Mine, South Acworth, N. H. (192777, exchange); an epidote specimen from Virginia Lime & Marble Company Quarry near Montville on Goose Creek, Loudon County, Va. (194791).

BLASDELL, Mrs. ELSIE VOGES, Washington, D. C.: Necklace of glass beads and one of Millefiori medallions and colored beads, (191995).

BLIZZARD, Mrs. JAMES. (See National Speleological Society.)

BLUME, Prof. Dr. WERNER, Goettingen, Germany: 350 mollusks (194501, exchange).

BODINE, A. AUBREY, Baltimore, Md.: 95 pictorial prints for special exhibition during July and August, 1951 (191505, loan); 14 pictorial prints as follows: "Oyster Dredging During Squall," Baltimore Harbor," "Ocean Ballet," "Mainsail—Doris Hamlin," "Ocean City, Md. Sunrise," "Gloucester," "Crossing Niggerhead Shoals," "Rowing at Ebbtide," "Pittsburgh Trainyard," "The Little White House," "Chesapeake Bay Skipjack," "Lawvale Street Snow," untitled backlighted bowsprit and untitled night harbor scene (192494).

BÖHLKE, Dr. J. (See Defense Department, *Department of the Navy, Office of Naval Research*, and Stanford University.)

BOLAFFI, Dr. DANTE S., New York, N. Y.: 8 new stamps of Italy, Trieste, San Marino, and the Vatican (191767); 17 postage stamps of Italy (192416, 192660, 192932, 193482, 194637).

BOND, A. M., Laurel, Md.: A star-nosed mole from Laurel (193500).

BORD, NUMA LOUIS, Oran, Algeria: Approximately 200 mollusks and 1 echinoderm from Algeria (191880).

BORRERO H., JOSÉ IGNACIO. (See Instituto de Ciencias Naturales.)

BOTANIC GARDEN, Gothenburg, Sweden: 400 European grasses (193619, exchange).

BOTANIC GARDENS, Sydney, New South Wales: 197 plants from Australia (192773, 193978, 194758, exchange).

BOUCOT, ARTHUR J., Arlington, Va.: 11 meteorites from various localities of the world (191631, exchange); 6 casts of Devonian brachiopod types from Canada, 2 brachiopod specimens from Upper Devonian of Canada, 4 from Cretaceous of New Jersey, 1 from Eocene of New Jersey, and 2 from Spain (192654).

BOURQUIN, FERNANDO, Buenos Aires, Argentina: 15 moths from Argentina (193355).

BOWES, FREDERICK, JR., Stamford, Conn.: 2 Canadian International Philatelic Exhibition meter markings (192414). (See also Pitney Bowes, Inc.)

BOWSHER, Mr. and Mrs. ARTHUR L. (See Mr. and Mrs. G. C. Higgins.)

BRABSON, MAJOR KIMBERLY, New York, N. Y.: 2 red deer from Germany (190318).

BRADBURY, JOSEPH W., Stratford, Conn.: A woven panel with Javanese *Wyang* figurines and designs in batik (191667).

BRADLEY, JOHN D. (See British Government, *British Museum (Natural History)*.)

BRADLEY, Mr. and Mrs. J. W., Los Angeles, Calif.: A wherryite and lead-hillite specimen from the Mammoth Mine, Tiger, Ariz. (191410).

BRAMLETTE, M. N., Los Angeles, Calif.: 70 Foraminifera from the Tertiary of California (191394); 12 type Foraminifera from the Miocene of California (194787).

BRANHAM, MRS. HUGH, Fort Myers Beach, Fla.: 3 marine mollusks including a paratype of a new subspecies from Campeche Bay, México (191911).

BRATTER, HERBERT M., Washington, D. C.: Chinese brass footwarmer (191879).

BRENCKLE, J. F., Mellette, S. Dak.: 33 United States ferns (191272).

BRICEÑO-MAAZ, Dr. T., Barcelona, Venezuela: 2 caterpillars and 1 adult moth from Venezuela (192639).

BRIDGE, Dr. JOSIAH, (See U. S. Department of the Interior, *Geological Survey*.)

BRIGGS, JOHN C. (See Stanford University.)

BRIGHAM YOUNG UNIVERSITY, Provo, Utah: (Through Dr. B. F. Harrison) 85 plants from Utah (194249).

BRITISH GOVERNMENT, London, England.—*British Museum (Natural History)*: 198 Chilean and Patagonian gnats (194486, exchange); (through Dr. Helen Muir-Wood) 244 Carboniferous and Mesozoic fossils chiefly from England (189969, exchange); (through E. B. Britton) 4 beetles from Trinidad and México (191638, exchange); (through Norman Tebble) 1 polychaete worm (192738); (through Dr. N. B. Marshall) 5 type fishes (194292, exchange); (through John D. Bradley) 2 moths from Africa (194418, exchange); (through Dr. F. van Emden) a weevil larva from Europe (194878). *Commonwealth Institute of Entomology*: (Through Dr. F. van Emden) 4 flies from Malaya (194308). *Royal Botanic Gardens*, Kew, Surrey: 200 duplicate grasses mostly from tropical Africa (191492, exchange); 1 grass of the type collection of *Hyparrhenia edulis* (191987, exchange); 33 tropical American plants (193253, exchange).

BRITT, JOHN J., New York, N. Y.: Sport shirt with stamp designs, and key ring with tab containing reproduction of the 1-cent British Guiana stamp (193270).

BRITTON, E. B. (See British Government, *British Museum (Natural History)*.)

BROAD, A. CARTER. (See Duke University.)

BRONNIMANN, Dr. P., Point-a-Pierre, Trinidad, B. W. I.: 51 type and figured specimens of a foraminiferal genus from Eocene of Trinidad (192322); 39 Arenaceous Foraminifera from the Tertiary of Trinidad (193493, 194480).

BROOKS, HAROLD K., Providence, R. I.: A Devonian starfish from New York, with six rays (191409, exchange).

BROTZEN, Dr. F., Stockholm, Sweden: 25 Foraminifera from the Cretaceous of Sweden (193622, exchange).

BROWER, A. E., Augusta, Maine: 48 Lepidoptera from Maine, and 1 from Massachusetts, including 6 types (194307).

BROWN, D. M. (See Arabian American Oil Co.)

BROWN, VERNON L. (See American Numismatic Association.)

BROWN, WILLIAM L., Burwood, Victoria, Australia: 108 ants from Australia (192423).

BROWN FUND, E. J., Smithsonian Institution: (In cooperation with Smithsonian Institution) 60 birds from southern Algeria collected by J. Laenen (191553).

BROWN UNIVERSITY, Providence, R. I.: A Brayton oil engine of 1878 or earlier (192653).

BRUNER, S. C., Loma Linda, Calif.: 127 bugs and 53 beetles from Cuba (175718).

BRUNS, FRANKLIN R., Jr., Washington, D. C.: 436 miscellaneous covers, seals, stamps, envelopes, souvenir sheets, and other philatelic material (191687, 191773, 191774, 191904, 192099, 192782, 192783, 192784, 192936, 192937, 193079, 193109); 1 ceramic stamp box with reproduction of \$1.00 Trans-Mississippi stamp; 3 ceramic ash trays with reproduction of \$1.00 Trans-Mississippi stamp (192988, loan); 2 framed original drawings: designs submitted for U. S. Honorable Discharge stamp, and Matilda Newport issue of Liberia, 1947 (193102, loan); 1 silver bowl, known as the "Barry Bowl," donated by Col. Hans Lagerloef for the best newspaper stamp column contest, won for 3 years by New York Sun, Franklin R. Bruns, Jr., stamp editor (193166, loan); 4 trophies from the Lagerloef "Barry Bowl" newspaper contest, 1941-43; 4 Centenary Exhibition Award plates; and S. P. A. 1948 Foreign Essays trophy (193167, loan); 259 assorted revalued postal cards, stamps, first day covers, and souvenir sheets (194615, 194888).

BULL, F. K., Pinopolis, S. C.: 60 fresh-water mussels from Lake Moultrie, near Pinopolis (192822).

BULLIS, HARVEY R., Jr. (See U. S. Department of the Interior.)

BURBANK, BENJAMIN, B., Bath, Maine; Andalusite from Smalls Falls, near Madrid, Maine (193944).

BURNHAM, CHARLES, Brooklyn, N. Y.: First day covers for Brooklyn and Baltimore and Ohio stamps (194635).

BURNS, DR. A. N. (See National Museum of Victoria.)

BURR, Lt. Col. JOHN G., Washington, D. C.: 11 uniforms and uniform accessories belonging to Brigadier General Edward Burr and donor (194886).

BURROUGHS, PAUL H., Concord, N. H.: 2 grafted specimens from the Rugles Mine, Grafton, N. H. (192324, exchange).

BUSER, MRS. EDWARD, Jr., New York, N. Y.: First day cover bearing Swiss "Lunaba" souvenir sheet, special cachet and cancellation (192933).

BUSHEY, Prof. CLINTON J., Upland, Ind.: 40 land snails from Grant County, Ind. (194092).

BYAS, WALTER J., Washington, D. C.: 275 land and fresh-water mollusks from northeastern Oklahoma (194906).

BYNUM, VIRGINIA DARE, Charlotte, N. C.: A miniature china doll, late nineteenth century (193677).

CALDWELL, Dr. JOHN S. (See Dr. Luis F. Martorell.)

CALIFORNIA, UNIVERSITY OF, Berkeley, Calif.: 22 plants collected in Brazil by Dr. Amaro Macedo (189794); 982 plants and 207 miscellaneous marine algae from North America collected by Annie M. Alexander and Louise Kellogg (191485, 191488, exchange); 692 plants collected in Colombia by H. L. Mason, S. Galen Smith, and associates (192052); grass from California (193347); 23 plants from El Salvador, collected by J. M. Tucker (194395); (through Dr. Paul D. Hurd, Jr.) fly from California (194905).

CALIFORNIA ACADEMY OF SCIENCES, San Francisco, Calif.: 54 grasses (192774, exchange); grass from California (193485); (through Dr. E. S. Ross) 100 ants from New Guinea and 44 from India (191906, exchange).

CALVERT, Dr. PHILIP P., Cheyney, Pa.: 1 dragon fly (191557, exchange).

CAMBRIDGE, Sgt. PHILIP, Cardiff, South Wales: 280 Tertiary and 42 Recent mollusks from western Europe and Germany (192971, exchange); 250 Cenozoic mollusks and barnacles from France, Holland, and Denmark and unwashed foraminiferal material from the island of Sylt and Holland; 125 Cenozoic and Cretaceous mollusks, worms and echinoderms; approximately 5,000. Recent mollusks from England, Germany, and Holland (194293, exchange).

CAMERON, MRS. DUNCAN, Washington, D. C.: 4 pieces of nineteenth century hand-made lace consisting of a three-cornered bobbin-made black silk shawl, Chantilly, France; black silk scarf (mantilla), Barcelona, Spain; 2 cream color scarves (mantillas) of laces net lace, Spain (191670).

CAMINITA III, LUDWIG, Arlington, Va., and WALTER L. RHINEHART, Jr., Falls Church, Va.: 25 fishes from Burdon's mill pond, west of Rehoboth Beach, Del. (191496).

CAMNITZER, Dr. GEORGE, New York, N. Y.: German "cover" of 1692 (191772).

CAMPBELL, GUY, Corydon, Ind.: 50 brachiopods from the Harrodsburg limestone at Bachman's quarry, Lauesville, Ind. and 60 corals from the Jeffersonville formation from the Falls of the Ohio, Jeffersonville, Ind. (191898); 1,000 Ordovician brachiopods

from the Bromide formation of Oklahoma (193221).

CAMPBELL, HOWARD. (See New Mexico Department of Game and Fish.)

CAMRAS, Dr. SYDNEY, Chicago, Ill.: 4 flies (191698); 74 flies from South America and Africa (193228, exchange).

CANADIAN GOVERNMENT, Ottawa, Ontario.—*Department of Agriculture*: 223 grasses from Canada (191482, 192171, 192812); 1,137 plants and 13 grasses from Canada (193917, 194291, exchange); 2 plants collected by P. F. Bruggemann in Canada (194374); (through Dr. Eugene G. Munroe) 8 moths from North America (187662, gift-exchange); (through H. G. James) 23 flies from Canada (192425); (through Dr. J. F. McAlpine) 5 flies from Canada and Lapland (193758, exchange). *Fisheries Research Board of Canada*: (Through Dr. J. C. Medcof) 20 marine clams from New Brunswick, Canada (191710); 5 marine mollusks from St. Mary Bay, Nova Scotia (192991); a rock with burrows of a mollusk from 40 fathoms off Nova Scotia (194834). *Geological Survey of Canada*: (through Dr. J. Jeletzky) 6 casts of type specimens of Mesozoic ammonites from Europe and Canada (193948); (through Peter Harker) 3 casts of a type Mississippian brachiopod from Nova Scotia (194200); (through Dr. D. J. McLaren) 55 Devonian brachiopods from northwest Canada (194040, exchange).

CANFIELD FUND, Smithsonian Institution: Tellurium, México, and pitchblende, Erzgebirge, Germany (191500); 11 vanadinite specimens from San Carlos Mine, Chihuahua, México (191504, 192410); pink fluorite octahedron on smoky quartz from Galenstock-Rhone-gletscher, Switzerland (191931); crystal of apatite from Valle Aurina, Bolzano, Italy (192734); topaz crystal from Amelia, Va. (194002); allophane specimen from Magdalena Mine, Kelly, N. Mex. (194191); 2 specimens of wolframite with cassiterite from Llallagua, Bolivia (194394).

CANTRALL, Dr. IRVING J., Pinckney, Mich.: 28 Neuroptera from Michigan (194222).

CAPRILES, Prof. J. MALDONADO, Mayaguez, P. R.: 2 bugs, type specimens, from Puerto Rico (194223).

CARBINE, W. F. (See U. S. Department of the Interior, *Fish and Wildlife Service*.)

CARBONELL, Dr. C. S., Montevideo, Uruguay: 21 decapod crustaceans (192880).

CAREY, Capt. CHARLES, Washington,

D. C.: 35 water color paintings of groups of American, French and Hessian uniforms of the American Revolutionary period (191689).

CARNEGIE MUSEUM. (See National Geographic Society.)

CARPENTER, Capt. WALTER N., Fort Myers, Va.: 48 marine mollusks from Yemen and Andaman Islands (192507).

CARRASCO, ANITA. (See Mrs. Antonio Franco.)

CARTER, CHARLES E., JR., Falls Church, Va.: Japanese Peace Treaty stamp (193672).

CARVALHO, Dr. J. PAIVA, São Paulo, Brazil: 24 shrimps from São Paulo State (193237).

CASTIGLIOLA, JULIUS. (See Department of Defense, *Department of the Navy, Hydrographic Office*.)

CASTRO, Dr. MANUEL P., Buenos Aires, Argentina: 4 mosquitoes (194484).

CASWELL, GEORGE A., Rochester, N. Y.: 2 septarian nodules from ravine near Bristol, N. Y. (193349).

CAWTHRON INSTITUTE, Nelson, New Zealand: (Through Bruce B. Given) 66 Australian wasps (193832, exchange).

CAZIER, Dr. MONT A. (See American Museum of Natural History.)

CHACE, E. P., Lomita, Calif.: 4 marine mollusks from near San Pedro (193394).

CHAMBERLAIN FUND, FRANCES LEA, Smithsonian Institution: An 18.87 carat opal from Ceará, Brazil (192097); spessartite garnet from Brazil weighing 53.82 carats (193219).

CHAPIN, Dr. EDWARD A., Washington, D. C.: A diopside specimen from marble quarry near Montville, Va. (191391); 9 fresh-water mussels from New York and West Virginia (192022); 8 amphipods collected at Turkey Run, Va. (193840).

CHAPMAN, Mrs. EVELYN P., Newfield, N. J.: 2 cards with "U. S. Treasury Defense Bond Flag City" cancellation (192418).

CHAPMAN, JAMES G., San Francisco, Calif.: 10 fossil wood specimens from Arakawa River, northwest of Sendai, Japan (193576).

CHAPMAN, PERCIVAL W., Norwich, Conn.: 1-cent and 2-cent "platens" used for the embossed stamped envelope of the Plimpton issue, 1874-86 (193029).

CHARLESTON MUSEUM, Charleston, S. C.: 6,122 European plants from the Kuntze Herbarium (194411).

CHASE, VIRGINIUS H., Peoria, Ill.: Alga from Illinois (193024); 38 grasses (193386).

CHATTIN, Mrs. E. D., Hollywood, Fla.: Uniform worn by a student nurse at Passaic General Hospital, Passaic, N. J., 1897 (192873).

CHEN, Dr. CHIN-WEN, Taipei, Taiwan, Formosa: 4 Polychaetes (191586).

CHESAPEAKE AND POTOMAC TELEPHONE COMPANY, Washington, D. C.: 1 co-axial cable display board and 1 model 500 telephone desk set (191676).

CHESAPEAKE BIOLOGICAL LABORATORY, Solomons Island, Md.: (Through R. S. Scheltema) 21 amphipods (193074).

CHICAGO NATURAL HISTORY MUSEUM, Chicago, Ill.: 89 plants from Maryland (191382); 3 plants collected in Colombia (191406); 183 phanerogams, including many isotypes, collected in Venezuela by J. A. Steyermark (191997, exchange); 114 ferns from Mexico and 23 plants collected by Dr. Margery Carlson (192152, 192175); 21 plants collected in Ecuador by J. A. Steyermark (192592); 127 miscellaneous cryptogams and 6 algae (192769, 193250, exchange); through R. L. Wenzel) 62 grasshoppers, crickets, roaches, and mantids from Iraq and Iran (191776); (through Dr. Sharat Roy) several fragments of the Benld, Macoupin County, Illinois, meteorite (192594); (through Dr. J. Marvin Weller) 11 topotypes of a Pennsylvanian gastropod from Illinois (193823); (through Loren P. Woods) 3 fishes collected in Bermuda (193924, exchange).

CHICOPEE MANUFACTURING CORPORATION OF GEORGIA, New York, N. Y.: An exhibit showing the manufacture of Lumite, a new synthetic textile (194475).

CHILD, SARGENT B., London, England: Fuller's spiral slide rule, 1879 (179682).

CHOI, W. L., New York, N. Y.: 22 block prints for special exhibition (193626, loan).

CHOUKÉ, Dr. KEHAR S., Philadelphia, Pa.: 2 small calipers for taking measurements of eyes (192280).

CIPOLLA, Dr. FRANCESCO. (See Institute and Museum of Geology.)

CLARK, CHESTER WELLS, Washington, D. C.: A silk patchwork table cover made about 1860 by the donor's grandmother in Earlville, Ill. (191408).

CLARK, Col. EUGENE S., Jr., Sandwich, Mass.: Stomatopod crustacean from Cape Cod Bay (193073).

CLARK, Mrs. LEILA FORBES, RUTH D. FORBES, and Mrs. PHYLLIS FORBES CLARK, Washington, D. C.: Ceremonial adz from the island of Mangaia, Hervey Island Group (192949).

CLARK, Mrs. PHYLLIS FORBES. (See Mrs. Leila Forbes Clark.)

CLARK, W. K., Greenfield, Mass.: Skulls of a killer whale and a grizzly bear from Alaska (194864).

CLARKE, J. F. GATES, Washington, D. C.: 9 butterflies from Virginia (192103); 194 miscellaneous insects from England (192305); 210 specimens of Hymenoptera from England (192500); 12 moths and a bat from West Virginia (192793, 193169).

CLEMENTE, Dr. LEOPOLDO S. (See University of the Philippines.)

CLENCH, WILLIAM J. (See Harvard University, *Museum of Comparative Zoology*.)

CLINTON, Mrs. C. R., Washington, D. C.: 2 marine mollusks from Acapulco, México (192509).

CLOUD, Dr. PRESTON E., Jr. (See U. S. Department of the Interior, *Geological Survey*.)

COCHRAN, Dr. DORIS M., Washington, D. C.: 52 items for photographic collection (194768).

COCKEY, Comdr. RICHARD K., Falls Church, Va.: 7 prints by Berndt, Goethe, Grevedon, Piranesi, Seiller, Watson, and Zündt (191413).

COLE, Dr. A. C., Jr., Knoxville, Tenn.: 15 ants (paratypes) from New Mexico (194107, exchange).

COLE, EZRA D., Nyack, N. Y.: 2 envelopes with "Paid 3" in small circle, postmarked Washington, D. C., each with oval "Smithsonian Institution" stamped corner card in lower left (191903).

COLE, THE CHILDREN OF MR. & MRS. MARCELLUS, Washington, D. C.: (Through Mrs. William Overstreet) Needlepoint tapestry depicting Saint Patrick (194282).

COLEMAN, CHARLES, Mountain Valley, Ark.: 1 quartz crystal from Mountain Valley (194598).

COLEMAN, GEORGE L., Dayton, Ohio: 104 marine mollusks from Florida (194003).

COLEMAN, RICHARD W., Berkeley, Calif.: 35 pupae of flies from California (192498).

COLLINS, Mrs. R. LEE, Knoxville, Tenn.: (Through Dr. Harold E. Vokes) Type specimen of Cretaceous turtle from Tennessee; remains of Miocene saffish from Virginia; and Pleistocene bear from Tennessee (194897).

COLOM, Dr. G., Soller, Beleaes, Spain: 19 Foraminifera from the Eocene of Spain and the Oligocene of Germany (192863, exchange).

COLORADO, UNIVERSITY OF, Boulder, Colo.: 4 grasses from Colorado (192705, 194005); a grass collected by Dr. William A. Weber on Mount Evans, Colo. (192092).

COLORADO AGRICULTURAL AND MECHANICAL COLLEGE, Fort Collins, Colo.: Plant from Colorado (191722).

COMITA, GABRIEL W., Seattle, Wash.: 10 copepods from Amchitka, Alaska (191456); a collembolan and a coccid beetle from Alaska (191357).

COMMISSION ON THE RENOVATION OF THE EXECUTIVE MANSION, Washington, D. C.: 4 wooden mantels, marble mantel, baseboard and wooden panels from East Room, and 18 boxes of bricks from the White House (194918).

COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANIZATION, Canberra, Australia: 341 plants collected in Australia by R. A. Perry (193572, exchange).

COMPAGNIA SAMMARANESE PER IL COMMERCIO ESTERO S. A., Rome, Italy: 2 first day covers of the Verdi set and the Tree set of Italian postage stamps (193104); 1 first day cover of the 100-lire "Flood Victims" stamp (193272); 3 first day covers—Italy Milano Fair, Sports Stamp Exhibit, and 12 lire on 13 lire (194636).

CONNOR, DR. LOUIS G., Washington, D. C.: 5 wrought-iron tools used by the Chinese rug maker (192164).

CONSERVATOIRE ET JARDIN BOTANIQUE, Geneva, Switzerland: 2,072 botanical specimens (190539, exchange).

COOK, ROBERT C., Washington, D. C.: 1 painted Inca kero and 2 Ecuadorian negative painted jars collected by the late O. F. Cook during trips to Latin America in period 1890–1930 (191882).

COOPER, DR. K. W., Princeton, N. J.: 330 wasps from Central America (194869, exchange).

COOPER, WALLACE T., Arlington, Va.: a fish (191497).

COPSEY, JACK E. (See William F. Johnson.)

CORRALLY, CHARLES J. (See Emily V. Taylor.)

CORBETT, WILLIAM P., Plainfield, N. J.: Marine mollusk from Kyoto, Japan (194489).

COREA, MR. and MRS. LUIS F., Washington, D. C.: 90 marine mollusks from Acapulco, México (191508).

CORNELL UNIVERSITY, Ithaca, N. Y.: 22 plants collected in Alaska by Christine Heller (193345, exchange); 2 Devonian crinoids (194102, exchange); 46 lichens collected in Washington by Drs. B. I. Brown and W. C. Muenscher (192401, exchange).

CORTÉS, RAÚL, Santiago, Chile: 4 paratypes of new Chilean flies (193357).

CORUM, WILLIAM, Springfield, Mo.: Khaki uniform coat and breeches worn by an enlisted member of the 1st Aero

Squadron during World War I (191592).

CORYNDON MUSEUM, Nairobi, Kenya. (Through E. Pinhey) 109 miscellaneous dragon flies, grasshoppers, etc., from Africa (192224).

CRISTOBAL, DR. UBALDO LOPEZ. (See Instituto de Sanidad Vegetal.)

CRISWELL, CLARENCE, Pass-a-Grille Beach, Fla.: 2 tokens commemorating the visit of American Numismatics Association Secretary, Lewis M. Reagan, to the St. Petersburg Coin Club (194384).

CROASDALE, DR. HANNAH, Hanover, N. H.: 304 lichens from Alaska (192987).

CROCKER, ROBERT H., Washington, D. C.: 1 Nazi flag (194381).

CROSSLEY, D. A., JR., Lawrence, Kans.: 9 mites including 2 holotypes from Texas (192332).

CROUNSE, MRS. AVERY F., Minneapolis, Minn.: 1 cacheted envelope marking 15th anniversary of Minneapolis Women's Philatelic Society (192496).

CROWELL, R. M., Durham, N. C.: 5 slides of mites from North Carolina (192306).

CROWN AGENTS FOR THE COLONIES, Washington, D. C.: (Through A. J. E. Davis) 31 British Colonial stamps (191693, 194621); 13 Montserrat postage issue in decimal currency, and complete Fiji Health semipostal set (192182); 5 postage stamps of the Windward Islands with "New Constitution 1951" overprint (192183); 1 Tristan da Cunha overprint on St. Helena, and 14 Falkland Island pictorials, January 2, 1952 issue (192935).

CUNNINGHAM, ROBERT O., Lorton, Va.: Barred owl and catbird (194036, 194892).

CURBISHLEY, DAVID L., Trenton, N. J.: 2 pottery pipe bowl fragments (194469).

CURVELO, DR. WALTER. (See Museu Nacional.)

DAHLGREEN FUND, Smithsonian Institution: "Awakening," engraving and relief etching by Gabor Peterdi (192779); wood engraving "Furnace," by Charles Quest (193389); 2 niello engravings, 1 drypoint by Beckmann, 1 wood cut by Kirchner, and 1 wood cut by Schmidt-Rottluff (194218).

DAILY, DR. WILLIAM A., Indianapolis, Ind.: 110 fresh-water algae (194371, exchange).

DALMAT, DR. HERBERT T., Guatemala, Guatemala: 4 blackflies from Guatemala (193957).

DALTON, BRIG. GEN. ALBERT C., Washington, D. C.: Coat made from the skin

of a buffalo killed by "Buffalo Bill" (191694).

DANIEL, Brother, Medellín, Colombia: 1 plant from Colombia (193620).

DARLINGTON, Dr. P. J. (See *Harvard University, Museum of Comparative Zoology*.)

DA ROCHA, Prof. DIAS, Ceará, Brazil: 15 shrimps (194262).

DARRAH, PETER F., Arlington, Va.: Civil War mortar projectile (191686).

D'ASCENZO, NICOLA, Philadelphia, Pa.: 2 crystals—garnet, Siberia, and willemite, Franklin, N. J.; 2 cut stones—4-ray star aquamarine, Brazil, weight 11.21 carats, cat's-eye diopside, Austria, weight 12.82 carats (193348, exchange).

DASHWOOD, R. JULIAN, Cook Islands: 25 marine mollusks from Mauke, Cook Islands (192488).

DAVENPORT PUBLIC MUSEUM HERBARIUM, Davenport, Iowa: 11 grasses from Iowa (192451).

DAVIDSON, CHARLES F., London, England: 4 autunites from Poco Norte, Reboleiro, Portugal (194896).

DAVIES, LEWIS, Durham, England: 33 blackflies from Europe (193913, exchange).

DAVIES, T. H., Birmingham, England: 2 lengths of the first locked-coil wire ropes made by Telford Clarence Batchelor (187464).

DAVIS, A. J. E., Washington, D. C.: 6 postage stamps: Brunel, Sarawak, Kenya, Uganda, Tanganyika and Ceylon (193239). (See also Crown Agents for the Colonies.)

DAVIS, BERNARD, Philadelphia, Pa.: U. S. Betsy Ross first day cover, and souvenir program of Betsy Ross first day sale (193271); hand-painted tie with stamp designs; 4 cuff links: reproductions of 1 penny 1880 stamp of Great Britain, 4-cent green 1883 stamp, 10-cent 1847 stamp; match box cover with reproductions of Swiss stamps in colors (193545, loan).

DAVIS, DON R., Oklahoma, City, Okla.: A moth (194771, exchange).

DAVIS, WAYNE H., Morgantown, W. Va.: Nashville warbler (193521).

DAWSON, Dr. E. YALE. (See University of Southern California, *Allan Hancock Foundation*.)

DAWSON, R. W., Minneapolis, Minn.: 11 flies from North America (194616).

DE CHAMPLAIN, Rev. A. A. (See *Le Séminaire de Rimouski*.)

DEFENSE, DEPARTMENT OF, Washington, D. C.—(Through Dr. Walfrido de Leon) 690 mosquitoes from Philippine Islands (193353). *Department of the Air Force*: (Through Capt. Lester L. Strickland) 10 rodents and 1 shrew

from Clark Air Force Base, Luzon, P. I. (194863). *Department of the Army*: 12 assorted confiscated weapons (191635); 6 German, Japanese, and Russian machine guns and Japanese barrage mortar used in World War II (194887); (through Capt. Theodore E. Blakeslee, Second Army Area Medical Laboratory) plant from Maryland (191657); (through Col. George W. Hunter, III, Fourth Army Area Medical Laboratory) 90 fresh-water mollusks from Korea and Japan (191805); 24 fresh-water mollusks from Texas (194670); (through Capt. Hilton H. Earle, Jr., Sixth Army Area Medical Laboratory) 24 fresh-water mollusks from Washington (192489); (through Lt. Col. W. J. La Casse, 35th Station Hospital) 589 mosquitoes from Japan (192791); (through Lt. John E. Scanlon, Far East Research Medical Unit) 55 miscellaneous insects and spiders and 200 flies from Japan (192989, 194920); (through Headquarters Fourth Army Area Medical Laboratory) 2 mosquito larvae from Marshall, Tex. (194272). *Army Medical Service Graduate School*: 579 mammals, 4 birds and 18 skins, 75 reptiles and amphibians, 19 fishes, 3 invertebrates, 91 insects, 16 plants, and 20 trematodes, from Mount Kinabalu and vicinity, North Borneo (191755); 6 rodents from Malaya (192947); (through Col. Robert Traub) 43 slides of fleas collected in various parts of the world (191418); 8 batflies from Africa and Orient (192109); 3 bats from Covington, Va. (193230). *Office of the Quartermaster General*: (Through Louis M. Roth) 3 mosquitoes from laboratory colony at Quartermaster Research and Development Laboratories (192105, 192301). *Department of the Navy*: (Through Dr. Martin W. Johnson) 1 giant spiny lobster larva from the Marshall Islands, collected in connection with "Operations Crossroads" Bikini Survey, 1946 (191794). *Hydrographic Office*: (Through Mrs. Helen Hayes) 3 sea-snakes from the Persian Gulf taken by the USS *Maury* (192057); (through John Lyman, William H. Littlewood, and Julius Castigliola) 117 deep sea fishes, 16 mollusks, and marine invertebrates from Atlantic Ocean (192867). *National Naval Medical Center*: (Through Dr. L. W. Teller) 63 insects from Indo Pacific (194485). *Naval Medical Research Unit No. 3*, Cairo, Egypt: (Through Dr. Harry Hoogstraal) 14 batflies from Africa and Orient (192108); 23 land mollusks from the Anglo-Egyptian Sudan (194004); (through Dr. Robert El.

Kuntz) a large collection of reptiles, amphibians, 50 mammals, 1,758 fishes, and approximately 500 mollusks from Egypt collected by Dr. Kuntz and others (192135); 16 isopods from Yemen, Arabia (193516). *Office of Naval Research*: 600 plants collected in Alaska by P. F. Scholander and associates (191626); (through R. F. Lynch) 250,000 Mesozoic and Tertiary fresh-water mollusks from western United States, collected by Dr. Teng-Chien Yen during summers 1949 and 1950 under Navy contract (192975); (through Dr. Ira L. Wiggins) 296 marine invertebrates and 3 mollusks from Point Barrow, Alaska, and vicinity (191241); (through Dr. J. Böhlke) approximately 1,410 marine invertebrates from the vicinity of Point Barrow, Alaska (193719); 21 lots of sponges, and 25 copepods, including types, from the vicinity of Point Barrow, Alaska (193842). (See also Smithsonian Institution, *U. S. National Museum*, collected by members of the staff).

DE FEZ SÁNCHEZ, DR. SIRO, Valencia, Spain: 450 land and fresh-water mollusks from Spain (193765, exchange).

DE FRANCA, DR. VALDEMAR C. (See *Ministerio da Viacão e Obras Publicas.*)

DEGENER, OTTO, Waialua, Oahu, T. H.: 1,047 plants from Hawaii and Canton Island (192291, 194375); (through Dr. C. H. Edmondson) a hermit crab and 3 barnacles (191239).

DEIGNAN, HERBERT G., Washington, D. C.: Woodthrush (194755).

DEKEYSER, P. L. (See *Institut Français d'Afrique Noire.*)

DE LAUBENFELS, DR. M. W., Corvallis, Oreg.: 1 sponge (192206).

DE LEON, DR. WALFRIDO. (See *Department of Defense and Manila Public Health Research Laboratories.*)

DE MESA, PEDRO, Manila, P. I.: 67 land, fresh-water, and marine shells from Japan (119208); approximately 4,400 land and marine mollusks from the Philippine Islands (158159).

DENDY, Prof. J. S. (See *Alabama Polytechnic Institute.*)

DE OLIVEIRA, DR. S. J., Rio de Janeiro, Brazil: 4 paratypes of marine midges from South America (192335).

DESHIELD, Hon. MCKINLEY A. (See *Republic of Liberia.*)

DE SOUZA LOPES, DR. H., Rio de Janeiro, Brazil: 4 marine mollusks from Brazil (193502); approximately 150 mollusks, mainly marine, from Brazil (194022, exchange).

DESPECHER, Mrs. CLARA S., Orlando, Fla.: (Through Ann Singleton) 4 photographs of General John J. Pershing and staff made on the day of their

arrival in France, June 1917 (193107).

DETROIT, UNIVERSITY OF, Detroit, Mich.: (Through Carl B. Obrecht) 46 mosquitoes from the United States (194901, exchange).

DEUTSCHES ENTOMOLOGISCHE INSTITUT, Berlin, Germany: (Through Dr. Willi Hennig) 52 biting midges, mostly from Europe (193757, exchange).

DEWITT, DR. WILLIAM B. (See *Federal Security Agency.*)

DICKINSON, MAY, Washington, D. C.: 2 hornet nests from United States (192316).

DICTAPHONE CORPORATION, Bridgeport, Conn.: (Through L. A. Engel) Dictaphone Time-Master, 1952, for temporary exhibit (194477, loan).

DIEKE, DR. G. H., Baltimore, Md.: 433 miscellaneous beetles from Perú and Bolivia (192330, exchange).

DR MAGGIO, ANDREA, Washington, D. C.: 1 red-shouldered hawk (192169).

DOBROVOLNY, DR. CHARLES G., Recife, Pernambuco, Brazil: (Through Dr. Ralph W. Imlay) 7 marine and fresh-water mollusks from near Recife (192992).

DODGE, HENRY, Scarsdale, N. Y.: Approximately 1,500 marine mollusks from the Bahamas and the Dominican Republic (192428).

DODGE, DR. H. R. (See *Federal Security Agency.*)

DOUGAL, KATHERINE P., Washington, D. C.: Tan spun silk wedding dress worn by Mary Virginia Adler in 1851 when she married William H. Dougal, and white Canton crepe shawl brought to Mrs. Dougal by Captain Cadwalader Ringgold from Commodore Perry's first trip to the Orient in 1853 (192709).

DOWNES, DR. J. ANTONY, Glasgow, Scotland: 89 biting midges representing 17 species from the British Isles (191649).

DUDGE, Mrs. C., Glion, Switzerland: (Through Charles Mason Remy) A cat's-eye chrysoberyl ring, presented in memory of donor's father, Dr. Frank Wigglesworth Clarke (191679).

DRAKE, DR. C. J., Ames, Iowa: 4 shorebugs and 11 stink bugs (191777, 194773, exchange); 14 bugs from México (192792, exchange).

DRAKE, ROBERT J., Albuquerque, N. Mex.: 83 land and fresh-water mollusks from Northern México and Texas (189417). (See also *University of New Mexico.*)

DRANGA, TED, Miami, Fla.: 8 marine mollusks and 2 pieces of cloth dyed from animals of these mollusks from Costa Rica (193722).

DREYFUS-BARNEY, Mrs. LAURA. (See *Daughters of Alice Pike Barney.*)

DROOGER, C. W., Utrecht, Netherlands: 319 Tertiary Foraminifera from the Island of Aruba (191678, exchange); 33 foraminiferal slides from the Tertiary of the Hodna Mountains of Algeria (193509, exchange).

DUBOVNIK, Dr. J. M., Ljubljana, Yugoslavia: 10 minerals and ores from Stari Trg and Idria, Yugoslavia (191662, exchange); (in cooperation with the Roebling Fund) 11 ores and 5 minerals from Yugoslavia (194647, exchange).

DUKE UNIVERSITY, Durham, N. C.: 3 grasses from North Carolina (192286); (through A. Carter Broad) 10 newts from North Carolina (193022).

DUMAS, ALEX, Boston, Mass.: 2 United States stamped envelopes with Smithsonian Institution rubber handstamps in upper left corners, one franked with 1-cent Interior Official stamp and used between 1873 and 1879, and the other with a 5-cent blue Garfield stamp, used Jan. 18, 1889, to Hawaii with "Ship" backstamp (193829).

DUMBAULD, Capt. C. M., Corpus Christi, Tex.: 7 marine shells from Panamá (194692).

DUN, Dr. G. S., Keravat, Territory of Papua and New Guinea: 100 land snails from the Territory of Papua and New Guinea (191711).

DUNCAN, MRS. GRACE BOGGESE, Cheltenham, Md.: Approximately 1,000 land and fresh-water mollusks from West Virginia, Virginia, Ohio, and Tennessee; marine mollusks from Cuba, together with 4 crustacea (194617).

DVORAK, D., Arlington, Va.: Bulgarian folk costumes, domestic loom work consisting of two embroidered and appliqued striped woolen skirts and a narrow belt margined with white porcelain beads originally acquired in Bulgaria by donor (192281).

EADS, Dr. RICHARD B. (See Texas State Department of Health.)

EARLE, Capt. HILTON H., Jr. (See Department of Defense, *Department of the Army*.)

EAST AFRICAN TSETSE RESEARCH, Shinyanga, Tanganyika, East Africa: 10 tsetse flies from Africa (193628).

EATON, BERRIEN. (See Eaton Chemical and Dyestuff Company.)

EATON CHEMICAL AND DYESTUFF CO., Detroit, Mich.: (Through Berrien Eaton) Medal issued by donor to commemorate the 250th Anniversary of the founding of Detroit (191576).

ÉCOLE D'AGRICULTURE, Rimouski, Quebec: 28 grasses from Canada collected by Dr. Ernest Lepage (192274).

EDMONDSON, Dr. C. H. (See Bernice P. Bishop Museum and Otto Degener.)

EDMONDSON, Dr. WALTER F. (See Institute of Inter-American Affairs.)

EDWARDS, B. A. E., Perth, Australia: 200 book lice from Australia (194861, exchange).

EDWARDS, E. H., Golden Valley Ga-tooma, Southern Rhodesia: 2 honey guides from Southern Rhodesia (191351).

EGERTON, MARIE, Lanham, Md.: 2 fish lice from locally caught fresh-water fish (193687).

EISENACK, Dr. A., Reutlingen, Germany: 50 Foraminifera from the Ordovician and Silurian of Estonia and Gotland (193943, exchange).

ELKINS, E. E., Brooklyn, N. Y.: A sculptured blue rayon "CipeX" tie with postal marking device (193264, loan).

ELKINS, J. C., Dallas, Tex.: 4 assassin bugs (194564, gift-exchange).

ELKINTON, HOWARD W., Philadelphia, Pa.: A Wyandot Indian wampum belt given to Huldah H. Bonwill by Kitty Greyeyes, widow of the Wyandot Chief, John W. Greyeyes, ca. 1880 (194468).

ELLIS, T. KENNETH, Hot Springs, Va.: 7 copepods and 26 amphipods (191311).

ELLSWORTH, JOHN, Dayton, Ohio: Shoulder-sleeve insignia of the United States troops in Trieste (193025).

EMMONS, Dr. ARTHUR B., 2d, Boston, Mass.: Original model of Emmons' "peliophore" (192087).

ENGEL, L. A. (See Dictaphone Corporation.)

ERD, RICHARD E., Washington, D. C.: A fluorescent calcite specimen from Cave Stone Company quarry, Norristown, Ind. (194857).

ERDMAN, DONALD S., Puntarenas, Costa Rica: 10 marine and land mollusks from Costa Rica (192025).

ESCUELA AGRICOLA PANAMERICANA, Tegucigalpa, Honduras: A plant from Costa Rica (191002); 515 plants collected in Central America, mostly Honduras, by L. O. Williams and associates (191383, exchange); 7 phanerogams and 76 ferns from Honduras (191474, 191888); 10 plants (191642); 89 grasses from Honduras (191654); 2 plants collected in Honduras by Dr. Louis O. Williams and A. Molina (192091); 429 plants from Honduras (194037, exchange); 1 plant collected in Costa Rica by Paul H. Allen (194554).

EVANS, Dr. CLIFFORD, Jr., Washington, D. C.: Archeological materials (mostly potsherds) collected by Dr. and Mrs. Evans from village site, Weldon, N. C. (193087); 784 type samples of aboriginal pottery from various archeological sites in Virginia, collected and obtained by donor in 1949-1950 (193088).

EXPERIMENTAL PLANTATIONS, INC., Chichacao, Suchitán, Guatemala: (Through Dr. B. A. Krukoff) 21 plants from Guatemala and Costa Rica (192910, 194250); 5 plants from México and Costa Rica (193742).

FABIAN, DOMINICK, Portland, Oreg.: United Nations first day cover with handwritten greetings on face (192663).

FALLS, R. H. M., Montreal, Quebec: First day cover bearing single copies of 4 Canadian Postage Stamp Centenary adhesives (192326); envelope franked with block of 4 Canadian Royal Visit stamps, and with Royal Train special postmark (192661).

FARRIER, MAURICE H., Raleigh, N. C.: 1 daddy longlegs spider from North Carolina (192184).

FARSHING, DON, Washington, D. C.: Die proof, in black, of the rejected Confederate Veterans' design by August Dietz, autographed by the designer (192419).

FASSETT, Dr. NORMAN C., Cambridge, Mass.: 55 grasses from El Salvador (191481).

FATOULLAH, K. (See Fatoullah and Lazar.)

FATOULLAH AND LAZAR, New York, N. Y.: (Through K. Fatoullah) A Korea "Italy" Revised Flag souvenir sheet and block of four stamps (194634).

FAUST, Dr. ERNEST CARROLL, New Orleans, La.: 16 fresh-water snails from Louisiana (192110).

FAYERWEATHER, MRS. CHARLES S., Columbia County, N. Y.: Baby dress, middle nineteenth century; child's dress and bonnet, approximately 1890; dress, period of 1830; collection of shoes of the nineteenth century (12 specimens) (192468).

FEDERAL SECURITY AGENCY, Washington, D. C.—*Public Health Service*: 35 mammals from northern Paraguay, collected by Charles H. Wharton in 1950 (192574); 6 mammals and 4 birds (192089, 192909); (through Dr. W. L. Jellison) 12 beetles, 26 bats, 5 land mollusks, and a crayfish from Montana (168661, 191128, 194568, 194572); 46 alcoholic specimens of mammals from Montana, Oregon, and Idaho (188199, 191315); 1 coyote skull from Idaho (191254); 13 northern wood frogs, 2 birds, 4 shrews, and 14 fresh-water snails from Alaska (191607, 192269, 192613, 192671); 373 flies from western United States and Alaska (193631); 79 reptiles and amphibians from western United States (194129); 31 bats and 1 reptile from United States; 6 mammals and 1 reptile from Assam (194587); 1 crayfish and 35 insects

from Montana, also 200 blackflies from Manchuria (194875); (through Oscar V. Lopp) approximately 50 fresh-water snails from Mobile, Ala. (189232); (through Dr. John N. Wilson) 295 fresh-water mollusks from the Snake River drainage, Idaho (191731); (through Dr. William B. DeWitt) 2 fresh-water snails from Brazil (191909); (through Dr. Laurence Irving) 320 birds and 3 shrews from Alaska (192131, 194657); (through Dr. Robert Rausch) 11 mammals, a Steller's jay, and 14 fresh-water mollusks from Alaska (192185, 192207, 194514, 194922); 1 bear and 2 barren ground grizzlies from Alaska (192426, 193178); (through Dr. Everett L. Schiller) Holboell's grebe, and a Richardson's owl from St. Lawrence Island, Alaska (192553); (through Betty Locker) 21 small mammals from Oregon and Montana (192838); (through Dr. Paul Woke) 225 bugs reared in laboratory of National Institutes of Health (193922); (through Dr. Louis J. Olivier) 5 fishes and approximately 150 mollusks from the Dominican Republic (194039, 194420); (through Dr. H. R. Dodge) 28 flies from Florida (194305); (through Mrs. Mildred Wilson) 27 copepods including type specimens (194838).

FEENEY, Rt. Rev. Msgr. THOMAS J., Davenport, Iowa: 1 parasitic wasp (192141).

FENNEL, C. M., San Francisco, Calif.: 2 crabs from Japan (192050).

FERGUSON, MRS. ELLA K., Fort Lawn, S. C.: 5 tintypes, 3 daguerreotypes, 2 ambrotypes, 3 paper prints, and 1 glass plate negative (194769).

FIDELITY-PHILADELPHIA TRUST CO. (See Estate of Gertrude Abbott.)

FIEDLER, RUSSELL and RICHARD, Washington, D. C.: A 1-cylinder Cleveland motorcycle (192292).

FIELD, Dr. HENRY, Washington, D. C.: 239 plants collected in Florida by Yusuf Lazar and donor (194551).

FIELD, Dr. HENRY, and LAZAR, YUSUF, Washington, D. C.: Approximately 1,500 land, fresh-water, and marine mollusks, 18 reptiles, 100 insects, 18 echinoderms, and 236 marine invertebrates from Florida (194800).

FINE, CAROLE ANNE. (See Popular Photography.)

FISCHTHAL, Dr. JACOB, Endicott, N. Y.: 2 helminths from Michigan (193875). (See also Harpur College.)

FLANNIGAN, EDWARD A., Phoenix, Ariz.: A Navy boat cloak owned by Lt. Louis Vastine Housel, during the Civil and Spanish-American Wars (191230).

FLINT, Dr. LEWIS. (See Louisiana State University.)

FLORIDA, UNIVERSITY OF, Gainesville, Fla.: 185 plants collected in New Zealand by John H. Davis (192402, exchange); 2 plants from Florida (194286, 194700); (through George K. Reid, Jr.) 362 fishes from Cedar Key, Fla. (193301, exchange); (through Dr. Martin M. Muma) 25 lady bugs and 14 beetles from Florida (194563, 194946).

FLORIDA STATE BOARD OF CONSERVATION, Tallahassee, Fla.: (Through Robert M. Ingle) 2 crabs from Apalachicola Bay, Florida (189488).

FLORIDA STATE BOARD OF HEALTH, Jacksonville, Fla.: (Through William M. Beck, Jr.) 4 midges from Florida (192014).

FLORIDA STATE UNIVERSITY, Tallahassee, Fla.: 5 grasses from Florida (193452); 79 mollusks from Florida (193763); (through Dr. J. Adger Smyth) 4 shrimps and 1 amphipod from Alligator Harbor, Fla. (192634); (through Dr. Harold J. Humm) approximately 37 marine invertebrates and 3 Foraminifera from Alligator Harbor and vicinity (193075).

FLOWERS, Dr. S. (See University of Utah.)

FORBES, RUTH D. (See Mrs. Leila Forbes Clark.)

FORESTRY COMMISSION OF NEW SOUTH WALES, Sydney, N. S. W.: (Through P. Hadlington) 30 beetles from Australia (192334).

FOSHAG, W. F., Washington, D. C.: A votive painting from the Church of San Juan Parangaricutiro, Michoacán, México, depicting *Parícutin volcano* (194796).

FOSTER, MULFORD B., Orlando, Fla.: 6 plants collected or cultivated in South America (192000); 7 cultivated plants (193298).

FOSTER, RICHARD W. (See Harvard University, *Museum of Comparative Zoology*.)

FOSTER, Mr. and Mrs. WILLIAM J., Falls Church, Va.: 5 pyrite nodules from Queens Hill Quarry, Cass County, Nebr. (193824).

FOWLER, JAMES A., Philadelphia, Pa.: 240 fresh-water mollusks from Tennessee and Virginia (193311).

FOX, Dr. IRVING, San Juan, P. R.: 10 black flies and 12 mosquitoes from Puerto Rico (194419, exchange). (See also University of Puerto Rico.)

FOX, JOHN A., New York, N. Y.: 3-cent embossed envelope of 1863 with Smithsonian Institution corner imprint (194611).

FRANCLEMONT, J. G., Washington, D. C.: 22 moths collected in District of

Columbia and vicinity (193168); 38 butterflies from Dare County, N. C. (194772).

FRANCO, Mrs. ANTONIO, San Francisco, Calif.: (Through Anita Carrasco) 9 photographic prints by the late Dominic Chiesa (193304).

FREDERICK, L. E., Longview, Wash.: An agate "thunder egg" from Oregon (191648, exchange).

FREEMAN, H. AVERY, Garland, Tex.: 2 moths collected in Arizona (193958).

FREEMAN, Prof. OTIS W., Cheney, Wash.: A 197-gram specimen of Waterville, Washington, meteorite (194599).

FREEMAN, Dr. REINO, Carbondale, Ill.: 2 mites collected in leaf litter in Minnesota (192303).

FREIHOFER, WARREN C., Berkeley, Calif.: 12 fresh-water mollusks from Echo Lake, Eldorado County, Calif. (194866).

FRIEDMAN, D. (See State of Israel.)

FRIEDRICH, Dr. HANS, Bavaria, Germany: 208 land mollusks from Bavaria (194110, exchange).

FREYTAG, Dr. G. F., Tegucigalpa, Honduras: 37 land and fresh-water mollusks from Honduras (191877).

FRIDAL, K. H., Jr., Tremonton, Utah: 2 Middle Cambrian trilobites from Utah (192819).

FRIZZELL, Dr. DON L., Rolla, Mo.: 14 type specimens of a foraminifer from the Lower Cretaceous of Texas and 39 type radiolarian specimens from the Paleocene of Missouri (191682).

FRYER, LE ROY (deceased): (Through Peters, Wemple, Daly and Pritchard) An Astral lamp with glass shade fitted for electric light (191429, bequest).

FULKS, T. IRVING, Gaithersburg, Md.: An iron hinge which was procured by James DeSelling at the site of the President's House in 1814 after it was burned by the British (191636).

FULLAWAY, DAVID T. (See Territory of Hawaii.)

FUNDACIÓN MIGUEL LILLO, Tucumán, Argentina: (Through Nicolas Kusnezov) 13 ants from Argentina (192604); 728 ants from Argentina (192945, exchange).

GALLAGHER, DAVE, Grand Junction, Colo.: A mineral from Huahuaxtla, Guerrero, México (193950).

GALLITELLI, Dr. E. Montanaro, Modena, Italy: 5 foraminiferal samples from the Tertiary of Italy (188552, exchange).

GALTSOFF, Dr. PAUL S. (See U. S. Department of the Interior, *Fish and Wildlife Service*.)

- GARDINER, LISLE S., Tillier, Oreg.: A mineralized wood specimen from Oregon (192916).
- GARDNER, Dr. JULIA A., Washington, D. C.: 85 land and fresh-water mollusks from Texas (192605). (See also Dr. Kotora Hatai.)
- GEARY, Maj. J. M., Seattle, Wash.: 5 waterboatmen from Alaska, first record for the New World and new to our collection (193393).
- GEORGIA, UNIVERSITY OF, Athens, Ga.: 411 plants mostly collected in Georgia (194099, exchange); 2 grasses from Georgia (194287); (through Dr. Donald C. Scott) 357 fresh-water fishes from Georgia (194760, exchange).
- GESLIN, Dr. LEOPOLD, Oran, Algeria: Approximately 38 marine mollusks, 2 arachnida, 6 crustacea, and 2 echinoderms from Algeria (191355).
- GIBSON, Dr. COLVIN L., Guatemala, Guatemala: 39 horseflies and 1 parasitic fly from Guatemala (194417).
- GIBSON, LEE B., Chicago, Ill.: 51 slides of Upper Devonian ostracods from Iowa (193679).
- GILL, Dr. EDMUND D., Melbourne, Australia: 1 sample of Devonian limestone from Australia (191681, exchange); 42 Paleozoic invertebrate fossils and plants from Australia and Tasmania, and 28 Tertiary mollusks from Victoria, Australia (194597, exchange).
- GILL, MINNA P., Washington, D. C.: Lady's parasol with carved ivory handle, period of the late nineteenth century (192009).
- GILLASPY, JAMES E., Berkeley, Calif.: 3 wasps (192939).
- GILLY, CHARLES L., Sr., New York, N. Y.: 83 Mexican ferns collected by E. Hernandez and donor (194370).
- GINÉS, Brother, Caracas, Venezuela: 136 plants collected in Venezuela (191277).
- GINSBURG, ISAAC. (See U. S. Department of the Interior, *Fish and Wildlife Service*, and Royal D. Suttkus.)
- GIVEN, BRUCE B. (See Cawthron Institute.)
- GLENN, MURRAY O., Magnolia, Ill.: 34 moths from Illinois (191704, 193307).
- GLENNY, FRED H., Columbus, Ohio: 2 African herons (192650).
- GOFFERJÉ, Dr. C. N. (See Museu Paranaense.)
- GOLDBERG, LOUIS, Norwich, Conn.: 1 pair of metal ice skates and 2 pairs of wood, metal, and leather-strap ice skates (192176).
- GOLDSTEIN, Dr. MARCUS S., Silver Spring, Md.: Face molds and miscellaneous photographs of Comanche Indians (192167). (See also New York University.)
- GOODALL-SANFORD, INC., New York, N. Y.: 14 fabrics and 7 fiber samples depicting "Fiber Blending for Better Performance" (191448).
- GOODMAN, Mrs. MAURICE S., Washington, D. C.: White linen dressing robe, night gown, petticoat and combing jacket, period of 1875 (192934).
- GOODRICH, Dr. H. B. (See Wesleyan University.)
- GOODRICH CO., B. F., Akron, Ohio: (Through Ray F. Stratton) Tractor tire and single tube automobile tire (194728).
- GORDON, Dr. MACKENZIE, Jr. (See Department of the Interior, *Geological Survey*.)
- GORGAS MEMORIAL LABORATORY, Panamá, Panamá: (Through Harold Trapido) 2 rice rats from Panamá (192250).
- GOTCLIFFE, SID, New York, N. Y.: 35 prints for special exhibition during December 1952 (192780, loan); 1 wood cut, "Dredge," by donor (193388).
- GOURLAY, Dr. W. BALFOUR, Cambridge, England: A plant collected in Chile (193092).
- GRAHAM, INEZ, Palm Beach, Fla.: 2 skulls from Indian mound near Palm Beach (191468).
- GRANT, RALPH M., Alexandria, Va.: 2 Japanese swords (194770).
- GRANTZ, ARTHUR. (See U. S. Department of the Interior, *Geological Survey*.)
- GRAU, GILBERT, Hollywood, Calif.: 33 marine mollusks (193359, exchange).
- GRAVES, Dr. WILLIAM WASHINGTON (deceased), St. Louis, Mo.: Original model of Graves' "Arcometer" (192551).
- GREEN, NORVIN E., Louisville, Ky.: 1-cent postcard, last day of use, and 2-cent postcard, first day of use (194610).
- GREENBERG, NORMAN E., Washington, D. C.: Jasper boulder from Pierce Mill, Rock Creek Park, Washington, D. C. (193826).
- GREENBURG, ALBERT, Tampa, Fla.: 1 fresh-water mollusk from Java (192607).
- GREENFIELD, RAY, Honolulu, T. H.: Approximately 15 copepods, 15 amphipods, 13 isopods, and 3 crabs (191550).
- GREENWOOD, WILLIAM, Lautoka, Viti Levu, Fiji: 70 plants collected in Fiji (192406, 193216).
- GRESSITT, Dr. J. L. (See National Research Council.)
- GRIFFITHS, Dr. HENRY J. (See University of Minnesota.)
- GRIGG, Mr. and Mrs. JAMES A., Queensland, Australia: Approximately 1,380 marine mollusks, mainly from Australia (191782, exchange).
- GRILL, Dr. RUDOLF, Vienna, Austria: 4 foraminifers from the Cretaceous

and Tertiary of Austria (194296, exchange).

GRODNER, ROBERT M., Durham, N. C.: 75 fresh-water mussels from Neuse River, near Raleigh, N. C. (193170).

GROSS, DR. ALFRED O., Brunswick, Maine: A green heron from Barro Colorado Island (191759).

GUERRERO, JOSÉ, New York, N. Y.: 20 etchings and monotypes for special exhibition during February 1952 (193495, loan).

GUFFEY, IDA, Washington, D. C.: 14 specimens of Mexican, Spanish and Chinese art presented in memory of Pauletta Guffey (194781).

GUIBÉ, DR. JEAN. (See Museum National d'Histoire Naturelle.)

GUILD, WILLIAM, St. Petersburg, Fla.: 2 fresh-water mollusks from an aquarium in St. Petersburg (194928).

GUMARÃES, DR. LINDOLFO R. (See Secretaria da Agricultura, Departamento de Zoologia.)

GULF COAST RESEARCH LABORATORY, Ocean Springs, Miss.: (Through Dr. S. Lee Wallace) Approximately 6 barnacles, 17 amphipods, 24 anomurans, 35 crabs, and 5 stomatopods from the Gulf of Mexico (191804).

GUMUCIO, JULIO F., Cochabamba, Bolivia: A gumucionite specimen from Llallagua, Bolivia (191630).

GUNCKEL, Prof. Hugo, Santiago, Chile: 173 grasses from Chile (193739).

HABE, DR. TADASHIGE. (See Kyoto University.)

HADLEY, Mrs. F. K., West Newton, Mass.: 1 holotype and 74 paratypes of mollusks from the Philippines (193173).

HADLINGTON, P. (See Forestry Commission of New South Wales.)

HAGN, DR. HERBERT, München, Germany: 508 specimens of Foraminifera representing 94 species from the Cretaceous and Tertiary of Austria and Germany (190578, exchange); 4 Foraminifera from the Oligocene of Germany (193539, exchange); 271 Foraminifera, representing 70 species from the Upper Cretaceous (Campanian) of Bavaria, Germany (193867, exchange).

HALIDAY, Mrs. WILLIAM B., Washington, D. C.: 1 olive-backed thrush (192397).

HALL, JACK C. (See University of Kansas.)

HAMELLE, HENRY, Grove City, Pa.: N. A. T. O. first day cover (194609).

HAMMOND, WARREN, Fayette, Mo.: Two-row hand corn planter, pat. Jan. 3, 1854 by S. Malone (193259); Remington percussion revolver, leather holster and belt, of the period of the Civil War (193497, loan).

HAMPFLE, GOTTLIEB A., Kennett Square, Pa.: 50 photographic prints for exhibition during March, 1952 (194043, loan).

HAND, DR. CADET, La Jolla, Calif.: 2 parasitic isopods and 1 shrimp collected by donor in Elkhorn Slough (192371).

HANDLEY, CHARLES O., Jr., Washington, D. C.: 150 North American birds and 569 mammals (194687).

HANKINS, J. HADEN, Richmond, Va.: A cryptogam (194757, exchange).

HANSCOMB, Mrs. GEORGE W., Fort Myers Beach, Fla.: 42 marine mollusks from Florida (194798).

HARDY, DR. D. ELMO, Honolulu, T. H.: 6 flies, including 3 holotypes, from Australia and 1 fly from Congo (192302); 2 type flies from Hawaiian Islands (193629).

HARKER, PETER. (See Canadian Government, Geological Survey of Canada).

HARMER, GORDON. (See Scott Publications, Inc.)

HARPER, Mrs. JAMES, Pelham, N. Y.: Photograph of Charles A. Leale, M. D., Captain and Assistant Surgeon, U. S. V., the first physician to reach President Lincoln after his assassination (192814).

HARPUR COLLEGE, Endicott, N. Y.: (Through Jacob Fischthal) 1 sponge lot, collected August 1950, from Chenango Lake outlet, Chenango Valley State Park, N. Y. (192677).

HARRAL, ESTATE OF GEORGE S., Mount Vernon, N. Y.: (Through Mrs. Nellie C. Harral) Confederate States flag, officer's sash, and cavalry saber, Civil War period (107333, bequest).

HARRAL, Mrs. NELLIE C. (See Estate of George S. Harral.)

HARRIGAN, Mrs. BENJAMIN, Philadelphia, Pa.: A United States National flag, period 1877-1890 (192465).

HARRIS, LUCIEN, JR., Avondale Estates, Ga.: 1 butterfly (194487).

HARRISON, DR. B. F. (See Brigham Young University.)

HARRISON, TOM, Kuching, Sarawak: 32 starlings from Santubong, Sarawak (194035).

HARRY, HAROLD, Columbia, Mo.: 2 paratypes of a new species of nudibranch from Louisiana (192024).

HARSHEBERGER, Capt. FRANK M., Breaux Bridge, La.: Hickory wood broom made with hand tools by Daniel Harsheberger, grandfather of donor, in 1890 while living in central Illinois (192884).

HART, DONN V., Santa Ana, Calif.: 206 marine and fresh-water mollusks, 1 shrimp, and 6 crabs from the Philippines (191712, 192310, 194063, 194225).

HARTMAN, Dr. FRANK A., Columbus, Ohio: 25 reptiles and amphibians from Panamá collected by donor (190671).

HARVARD UNIVERSITY, Cambridge, Mass.—*Arnold Arboretum*: 1 plant from Canton Island (191641); 212 cryptogams collected in Fiji by A. C. Smith (191672, exchange); 22 plants collected in Fiji by L. Reay (192407); 1,704 plants from various regions and collectors (192964, exchange). *Gray Herbarium*: 291 plants collected in Idaho by Quentin Jones (194659, exchange). *Museum of Comparative Zoology*: (Through William C. Schroeder) 102 fishes, cotypes and paratypes (190177, exchange); 23 fishes from the western Atlantic (192970, exchange); 2 type specimens of the fish *Paramyrxine* (194786, exchange); (through William J. Clench) 10 land mollusks from Africa (191510, exchange); marine mollusk from off Port Aransas, Tex. (192021, exchange); approximately 2,513 miscellaneous mollusks including paratypes (192795, 193215, 193868, exchange); (through Dr. Joseph Bequaert) 1 wasp cotype (191705, exchange); (through Dr. P. J. Darlington) beetle from Colombia (192329); (through Richard W. Foster) approximately 30 marine mollusks from Tobago, B. W. I. (192979, exchange).

HASBROUCK, Dr. EDWIN M., Washington, D. C.: Brass fishing reel (191758).

HATAI, Dr. KOTORA, Sendai, Japan: (Through Dr. Julia A. Gardner) 7 lots, including 10 topotype specimens of Tertiary mollusks from Japan (192293).

HATSCHBACH, Dr. GERT, Curitiba, Paraná, Brazil: 99 plants collected in Brazil (191388, 192319).

HAUGHT, OSCAR, Littleton, W. Va.: 1,576 plants collected in Colombia (191264).

HAUPTFLEISCH, W. F., Jeffreys Bay, Union of South Africa: (Through Miss Hauptfleisch and Miss Reid) 500 marine mollusks from Jeffreys Bay (194422).

HAWAII, TERRITORY OF, *Board of Commissioners of Agriculture and Forestry*, Honolulu, T. H.: (Through David T. Fullaway) 7 parasitic wasps from Hawaii (193754).

HAWAII, UNIVERSITY OF, Honolulu, T. H.: 9 plants collected in Hawaii (191959); (through Prof. Sidney C. Hsiao) 10 oysters from Pearl Harbor, T. H. (193116).

HAWAIIAN SUGAR PLANTERS' ASSOCIATION, Honolulu, T. H.: (Through E. C. Zimmermann) 37 wasps from Pacific Islands (191701, exchange).

HAWTHORNE, Mrs. GEORGE, Camden, N. J.: Modern Ivory carving of the

Hindu god Krishna, the incarnation of Vishnu, and a miniature ivory carving of an elephant, the work of a native artist of the Belgian Congo (175571).

HAYDOCK, Maj. EDWARD L., Luanshya, Northern Rhodesia, Africa: 12 bird skins from Northern Rhodesia (191471).

HAYES, Mrs. HELEN. (See Department of Defense, *Department of the Navy*.)

HAYTER, W. R., Crescent City, Calif.: (Through Congressman Hubert B. Scudder) A Civil War veteran's badge (193748).

HAZZARD, R. (See Office of the Australian Government Trade Commissioner.)

HEATH, W. LLOYD, White Plains, N. Y.: 76 Korean postage stamps (194691).

HEBREW UNIVERSITY, Jerusalem, Israel: 5 lichens from Palestine (191372); 100 plants from the Near East and Mediterranean (194288, exchange).

HEDDERGOTT, Dr. H., Münster/Westfalen, Germany: 152 Microlepidoptera from Germany (192788).

HEDGPETH, Dr. JOEL W., La Jolla, Calif.: One lot of hydroids (191310); 31 lots of sea anemones from the Gulf of Mexico (193916).

HENBEST, Dr. LLOYD G. (See U. S. Department of the Interior, *Geological Survey*.)

HENDLEY, ALBERT J., Washington, D. C.: Photograph of Mrs. Elizabeth Cady Stanton and Susan B. Anthony, American Woman Suffrage leaders, taken in 1875 (192598).

HENNING, Dr. WILLI. (See Deutsches Entomologisches Institute.)

HENNINGSMOEN, Dr. G. (See Paleontologisk Museum.)

HERBARIO "BARBOSA RODRIGUES", Itajaí, Santa Catarina, Brazil: 23 plants from Brazil collected by Pe. Raulino Reitz (191476).

HERBERT, Rev. Dr. ARTHUR L., Newark, N. J.: 235 specimens of Clara Maass-Lutheran Memorial Hospital philatelic material, Cuban Maas stamps, etc. (193070); first day cover of the 1-cent anti-tuberculosis stamp of Cuba, 1951 (193132).

HERMANN, Dr. F. J., Beltsville, Md.: 3 plants from Washington, D. C. (192320).

HERST, HERMAN, Jr., Shrub Oak, N. Y.: A deck of playing cards with reproduction of 5-cent 1847 stamp, and a deck of playing cards with 10-cent 1847 stamp reproduction (193113).

HESS, FRANK L. (See J. T. Patterson.)

HICKOK, BENTON T. (See The National Speleological Society.)

HIGGINS, Mr. and Mrs. G. C., Tulsa, Okla., and BOWSER, Mr. and Mrs. ARTHUR L., Washington, D. C.: 150 invertebrate fossils from Pennsylvanian and Permian rocks of Oklahoma (194212).

HILDEBRAND, HENRY, Austin, Tex.: 10 marine mollusks from off Freeport (192506). (See also University of Texas.)

HILL, Mrs. LENA S., Washington, D. C.: A cedar waxwing (194472).

HILL-TOOT, CHARLES B., Victoria, British Columbia: 61 Canadian semi-official airmail stamps and 1 unauthorized "Labrador" stamp (191691).

HILLYER FUND, VIRGIL M., Smithsonian Institution: A pewter candlestick and pump lamp, tole hanging lamp, and tin lard lamp (194911).

HINTON, CHARLES L., Allegany, N. Y.: 7 medals and 1 plaque (194604).

HIRSCHL, MILTON, Los Angeles, Calif.: 24 prints for exhibition during May 1952 (194216, loan).

HJORTH-SØRENSEN, ODD. (See Norwegian Embassy.)

HOBBS, DR. HORTON H., JR., Charlottesville, Va.: 16 crayfishes, including 8 types, and 1 shrimp (191312, 194747); 4 shrimps, 4 crayfishes from Honduras, and 9 shrimps from Gold Coast, West Africa (192737).

HOBBS, K. R., San Dimas, Calif.: 24 paratypes of a parasitic wasp of the family Torymidae (191697).

HOEDEMAN, DR. J. J. (See Zoologisch Museum.)

HOFFMAN, E. H., Washington, D. C.: 2 Flobert cartridges, cal. 28, rim-fire, ca. 1855 (193103).

HOFFMAN, Mrs. LOUISE, New York, N. Y.: (Through Fred W. Kessler) A matchbox case (194665).

HOFFMAN, RICHARD L., Clifton Forge, Va.: Approximately 450 fresh-water mollusks from Virginia (194865). (See also Capt. Andrew J. Johnson.)

HOFFMASTER, RICHARD E., Pittsburgh, Pa.: 5 amphipods from Bear Cave Sink, near Hillside, Pa. (193067); 2 flatworms and 3 amphipods from Blowing Cave, Va. (194009).

HOLLAND, DR. C. G., Staunton, Va.: 86 projectile points and large blade types from Virginia (193150).

HOLTHUIS, DR. L. B. (See Rijksmuseum van Natuurlijke Historie.)

HOMAN, B. H., JR., New York, N. Y.: 6 postal history items, and 12 dies of essays for United States postal stationery prepared by George F. Nesbitt and Company (193111); 11 dies of essays for government embossed postal stationery prepared by Nesbitt and 1 model of cancelling device, patented in 1869 (193306, loan).

HOOD, JAMES R., Camp Pickett, Va.: Approximately 60 fresh-water mollusks from Camp Pickett Military Reservation (194717, exchange).

HOOGSTRAAL, DR. HARRY. (See Department of Defense, *Department of the Navy, Naval Medical Research Unit No. 3*.)

HOOVER, Mrs. BEATRICE, Washington, D. C.: A Victor typewriter with carrying case and manual (192508).

HOPKINS MARINE STATION, Pacific Grove, Calif.: (Through Dr. Donald P. Abbott) 631 slides of ostracods (192370).

HOPKINS, DR. SEWELL H. (See Texas Agricultural and Mechanical College, *Research Foundation*.)

HORLBECK, Mrs. F. H., Charleston, S. C.: 1 phanerogam (191886).

HOTCHKISS, GEORGE, Okinawa: 21 plants from Okinawa (193217).

HOTCHKISS, NEIL, Bowie, Md.: 13 plants from Maryland (192405).

HOTTES, F. C., Grand Junction, Colo.: 5 slides of aphids including type, from Colorado (192978).

HOUSHOLDER, VIC H., Phoenix, Ariz.: A rat from Arizona (189985).

HSHAO, Prof. SIDNEY C. (See University of Hawaii.)

HUBBS, DR. CLARK. (See University of Texas.)

HUBRIGHT, LESLIE, Danville, Va.: 24 paratypes of new species of land mollusks from North Carolina (194310); approximately 800 land and fresh-water mollusks from Maryland, Virginia, North and South Carolina (194801).

HUDSON, DR. GEORGE E., Pullman, Wash.: 5 birds (194471).

HUDSON, L. S., East Setauket, N. Y.: A ceramic stamp box, with reproduction of Canadian 50-cent "Bluenose" stamp on cover (193064).

HUGHES, Mrs. CARROLL W. (See Mrs. Guy W. Starling.)

HUMM, DR. HAROLD J. (See Florida State University.)

HUNT, Mrs. ALICE NORVELL. (See Col. and Mrs. Stevens T. Norvell.)

HUNTER, Col. GEORGE W., III. (See Department of Defense, *Department of the Army*.)

HURD, DR. PAUL D., JR. (See University of California.)

HUSING, FRED C., Oakland, Calif.: 6 cacheted envelopes Oakland centennial, November 6, 1951, and 1 cacheted envelope, Contra Costa Post Office changed to Oakland (192846, 194561).

IDAHO, UNIVERSITY OF, Moscow, Idaho: 2 plants from Idaho (193822).

ILLG, PAUL L., Washington, D. C.: Miscellaneous marine invertebrates, 2

lots mollusks, and 1 lot Ostracods from various places (193592).

ILLINOIS, UNIVERSITY OF, Urbana, Ill.: 3 grasses from Illinois (192826).

ILLINOIS STATE MUSEUM, Springfield, Ill.: 2 grasses from Illinois (194850).

IMLAY, Dr. RALPH W. (See Dr. Charles G. Dobrovolsky.)

INDIANA, UNIVERSITY OF, Bloomington, Ind.: 41 birds (193089).

INGELOFF, THORSTEN, Karlstad, Sweden: Swedish first day cover with special "Malmo" cancellation (194614); Tylosand and Oregro postal marking on covers (194916).

INGLE, ROBERT M. (See Florida State Board of Conservation.)

INSTITUT FRANÇAIS D'AFRIQUE NOIRE, Dakar, Senegal, French West Africa: (Through P. L. Dekeyser) 169 marine mollusks from French West Africa (192796, exchange).

INSTITUT ROYAL DES SCIENCES NATURELLES DE BELGIQUE, Bruxelles, Belgium: Echinoid from the Cretaceous of Belgium (193888, exchange); (through Dr. Marius le Compte) 2 specimens and 1 cast of Devonian brachiopods from Belgium (194895, exchange).

INSTITUTE AND MUSEUM OF GEOLOGY, Palermo, Sicily: (Through Dr. Francesco Cipolla) 167 invertebrate fossils from Sicily (190305, exchange).

INSTITUTE OF INTER-AMERICAN AFFAIRS, Lima, Perú: 74 grasses from Haiti and Costa Rica (190017); (through Dr. Walter F. Edmundson) 20 fresh-water mollusks from Michoacán, México (193819).

INSTITUTE OF JAMAICA, *Science Museum*, Kingston, Jamaica, B. W. I.: 19 Jamaican ferns (191671, exchange); 23 plants collected in Jamaica (192590); 39 ferns collected by George R. Proctor (192985).

INSTITUTE OF PETROLEUM GEOLOGY, Tokyo, Japan: (Through Dr. Takayashu Uchio) 4 Recent foraminiferal specimens from Japan (193865).

INSTITUTO AGGEU MAGALHÃES, Pernambuco, Brazil: (Through Dr. Frederico Simões Barbosa) 52 fresh-water mollusks from Pernambuco (192275).

INSTITUTO AGRONÓMICO DO NORTE, Belém, Pará, Brazil: A grass and a plant from Brazil (193209, 194619).

INSTITUTO DE BIOLOGÍA, Chapultepec, México: 7 plants from México (191478).

INSTITUTO BOTÁNICO "ANTONIO JOSÉ CAVANILLES," Madrid, Spain: 31 plants obtained by various collectors in Spain (191895, exchange).

INSTITUTO DE BOTÁNICA DARWINIÓ, San Isidro, Argentina: 33 plants from South America (194198, exchange); 60

plants from Argentina and Bolivia (194849, exchange).

INSTITUTO DE CIENCIAS NATURALES, Bogotá, Colombia: 84 plants collected in Colombia by H. García-Barriga and R. E. Schultes (191379, exchange); 36 plants collected in Colombia by R. E. Schultes (191480); 46 plants collected in Colombia mostly by A. Dugand (192554, gift-exchange); (through José Ignacio Borrero H.) 4 birds from Colombia (193337, exchange).

INSTITUTO DE INVESTIGACIONES VETERINARIAS, Caracas, Venezuela: (Through Dr. Franco Vergani) 45 land and fresh-water mollusks from Venezuela (188430).

INSTITUTO DE SALUBRIDAD Y ENFERMEDADES TROPICALES, México, D. F.: (Through Dr. Luis Vargas) 6 mosquitos from México (191703).

INSTITUTO DE SANIDAD VEGETAL, La Plata, Argentina: (Through Dr. Ubaldo Lopez Cristobal) 297 South American ants, mostly Argentine (192304, exchange).

INSTITUTO ECUATORIANO DE CIENCIAS NATURALES, Quito, Ecuador: 267 plants from Ecuador (192965).

INSTITUTO INTERAMERICANODE, Turrialba, Costa Rica: 73 plants from Costa Rica (193158).

INSTITUTO MARDEN, Ituiutaba, Minas Gerais, Brazil: 7 plants collected in Brazil by Amaro Macedo (191389); 56 plants from Brazil (191477).

INSTITUTO NACIONAL DE HIGIENE, Caracas, Venezuela: (Through Dr. A. Mirsa) 37 beetles from Venezuela (187733).

INSTITUTO NACIONAL DE INVESTIGACIÓN DE LAS CIENCIAS NATURALES, Buenos Aires, Argentina: (Through Dr. N. A. Kormilev) 10 bugs from Argentina (193632, exchange).

INTERIOR, U. S. DEPARTMENT OF THE, Washington, D. C.—*Fish and Wildlife Service*: A nest of Traill's flycatcher collected by Brooke Meanley in Arkansas (191377); 2 plants from New Mexico (191578); 30 plants mostly collected in Alaska by Frank Beals (192093); 4 eggs of bush-tit from Idaho (193152); 1 plant from Nebraska (193154); a skeleton of whooping crane, and one of Ross goose (194096); a Trumpeter Swan in alcohol and 6 eggs (194785); 1,196 birds from North America (194879); 685 mammals (194926); (through Stewart Springer and Harvey R. Bullis, Jr.) 1,131 fishes from Gulf of Mexico, collected by U. S. M/V. *Oregon* (190888); (through W. F. Carbine and Isaac Ginsburg) 2 fishes from Quantico, Va. (191005); (through Stewart Springer) approximately 769

marine invertebrates, also echinoderms, and 106 mollusks collected by U. S. M/V, *Oregon* in the Gulf of Mexico (191240); (through Dr. Paul S. Galtsoff) 2 marine mollusks from the St. Lawrence River, Canada (191781); (through Dr. Leslie V. Scattergood) 1 lot of trematodes from the mouth of the sea herring, *Clupea*, from Booth Bay Harbor, Maine (192666); 2 green crabs from Perry, Maine (192878); 2 barnacles from a lobster (193560, exchange); (through Dayton L. Alverson) 21 fishes (193196); (through R. T. Mitchell) a land mollusk (193364); (through John W. Aldrich) 5 specimens of Greenland Eskimo work in feathers and bird skins; 4 articles made from vicuña, alpaca, and llama skins (194376). *Geological Survey*: Case and 10-keyed flute marked, "William Hall & Son, 239 Broadway, New York," made about 1880; included with maps and instruments left by the late Dr. Arthur Keith (191245); 45 late Cenozoic land gastropods from Mona Island between Hispaniola and Puerto Rico collected by C. A. Kaye, 1950 (192294); 33 plants collected in Alaska by Dr. R. M. Chapman (192924); about 1,800 type specimens of Ozarkian and Canadian cephalopods (192929); 6 slides of Upper Cretaceous, Lawson limestone, fossils from Suwannee County, Fla. (192931); 3 lots of Upper Cambrian trilobites from the Eminence formation of Missouri (193097); 2 specimens and 1 cast of ammonite (193163); 160 invertebrates from the subsurface Upper Cretaceous of Florida (193303); 344 rocks from San Juan Mountains, Colorado, collected by Drs. Whitman Cross and Esper S. Larsen, Jr. (193895); 4 ostracods from the Cretaceous of Holland, and 1 from Devonian, Haragan shale, Oklahoma (194202); 1,500 specimens of Mollusca from Well No. G-188 near Miami, Fla. (194297); 40 type fossils from western United States (194414); 27 type ammonites from the Upper Cretaceous of Montana, and 6 type ammonites from Upper Cretaceous of western United States (194558); 8 thin sections of Wolfcamp fusulinids from Texas (194631); (through Dr. MacKenzie Gordon, Jr.) approximately 169 fossil vertebrates from various localities in Georgia, Wyoming, Montana, and Washington collected by M. J. Hough and party during summer of 1950 (191411); (through Dr. Josiah Bridge) 431 fresh-water and land mollusks from Alaska collected by William S. Benninghoff and John R. Williams (191868); (through Dr. Preston E. Cloud, Jr.) 19 fossil vertebrate speci-

mens from phosphate mines of the Bone Valley formation in Polk County, Fla., collected by J. B. Cathcart and others during 1951 (191933); 4 fishes from Onotoa Atoll, Marshall Islands, by Jack Randall 1951 (193095); (through Dr. T. C. Yen) 9 fresh-water mussels from Idaho (192112); (through Dr. James Steele Williams) 25 fossil fishes from States of Paraná and Santa Catarina, Brazil, collected by MacKenzie Gordon, Jr. and party during 1946 (193952); vertebrate fossil collected by I. L. Tailleux in August, 1951, in Colville Valley on the Kiligwa River, Alaska (193965); (through Dr. Lloyd G. Henbest and Dr. James Steele Williams) 6 fishes (194377); (through Arthur Grantz) approximately 65 marine mollusks from Cook Inlet, Alaska (194671). (See also Walcott Fund.) *National Park Service*: 29 plants from Great Sand Dunes National Monument, Colo. (190462); 3 grasses from Grand Canyon National Park, Ariz. (191891, 191930); (through Joseph C. Moore) 6 parts of whale from Florida (191231, 191534); (through Arthur Stupka) shrew and wood rat from Great Smoky Mountains National Park, Tenn. (194802, 194880, exchange).

IOWA STATE COLLEGE, Ames, Iowa: 1 grass (194197).

IRVING, DR. LAURENCE. (See Federal Security Agency, *Public Health Service*.)

ISAACS, JESSE F. (See Mrs. Jessie M. Rodgers Isaacs.)

ISAACS, MRS. JESSIE M. RODGERS (deceased): (Through Jesse F. Isaacs) A silver gravy ladle and 6 silver teaspoons (190863).

ISELY, DR. DUANE, Ames, Iowa: 72 plants from the United States (192768, exchange).

ISRAEL, STATE OF: (Through D. Friedman) 6 unused stamps of Israel, consisting of 2 copies of each of the Jewish National Fund (Kenen Kayemet L'Israel) (191692); 2 copies each of 4 stamps of Israel (192658); 14 Israeli stamps (194917).

JÄCKH, DR. E., Bremen, Germany: 72 Lepidoptera from Germany (194306, exchange).

JACKSON, RALPH W., Cambridge, Md.: 2 land snails from Ecuador (192948, exchange); 500 land, fresh-water, and marine mollusks, from Maryland, Texas, and Ecuador (193210).

JACOBI, F., Caracas, Venezuela: First day cover of Queen Isabella, the Catholic, set of postage stamps of Venezuela (194867).

JACOBSON, MORRIS K., Rockaway Beach, N. Y.: Approximately 20 marine

mollusks from Long Island (192852). (See also Oscar Alcalde Ledón.)

JAHNS, R. H. (See New Mexico Bureau of Mines and Mineral Resources.)

JAMES, ELLEN, Washington, D. C.: Posterior half of braincase of a fossil herring from Coos Bay, Oreg. (194642).

JAMES, H. G. (See Canadian Government, *Department of Agriculture*.)

JARVIS, DANIEL, Fort Worth, Tex.: 750 Pennsylvanian and Permian invertebrate fossils from Texas (192296).

JEFFRIES, FRANK L., Seat Pleasant, Md.: 353 land and fresh-water mollusks from southeastern United States (191709, 192147).

JELETZKY, Dr. J. (See Canadian Government, *Geological Survey of Canada*.)

JELLISON, Dr. WILLIAM L. (See Federal Security Agency, *Public Health Service*.)

JENISON, Mrs. CAROLINE SPOONER, ESTATE OF, Washington, D. C.: (Through Dr. Nancy Jenison) Cotton dress worn by the donor's grandmother in Kentucky, ca. 1840, challis dress with two bodices worn by donor's mother, ca. 1850 (192664).

JENISON, Dr. NANCY. (See Estate of Mrs. Caroline Spooner Jenison.)

JICHA, HENRY J., JR. (See New Mexico Bureau of Mines and Mineral Resources.)

JOB, Mrs. THOMAS C., Tyler, Tex.: 7 Foraminifera from the Paleocene of Arkansas (193494).

JOHNSON, Capt. ANDREW J., and HOFFMAN, RICHARD L., Clifton Forge, Va.: 40 reptiles and amphibians from Virginia (193970).

JOHNSON, Rear Admiral JESSE G. (retired), Norfolk, Va.: 1 "Capex" silver plate with replica of first Canadian postage stamp, awarded to winners at 1951 Canadian International Philatelic Exhibition (193920).

JOHNSON, Dr. MARTIN W., La Jolla, Calif.: 3 slide mounts of 9 copepods from the Salton Sea (192575). (See also Department of Defense, *Department of the Navy*.)

JOHNSON, WILLIAM F., and COPSEY, JACK E., Lodi, Calif.: Type specimen of the helminth, *Opisthodena bodensis*, from California (191462).

JOHNSTON, Dr. W. D. Jr., Washington, D. C.: 3 quartz specimens containing inclusions from Minas Gerais, Brazil (194764).

JOHNSTONE, Mr. and Mrs. HARRY INGE, Mobile, Ala.: 1,365 marine and fresh-water mollusks from Alabama (192606, 193171).

JONES, Mrs. JOYCE. (See University of Michigan.)

JONES, Mrs. LENA L. (deceased): (Through R. D. Russell) A very large round tablecloth of lace and fillet medallions, made by donor (191252, bequest).

JONES, Dr. LOWELL, Reno, Nev.: 3 fresh-water clams from Antioch, Calif. (192191).

JOSLIN, RICHARD, Ewa, T. H.: 8 concretions from Signal Mountain, Imperial County, Calif. (194661).

JOUBERT, C. J. (See University of Stellenbosch.)

JUNGE, CARLOS, Concepción, Chile: 40 plants from Chile (191475).

KANO, Dr. ROKURO, Tokyo, Japan: 103 medically important flies from Japan (191706, exchange).

KANSAS, UNIVERSITY OF, Lawrence, Kans.: 3 grasses from Kansas (191674, 192827); (through Dr. R. H. Beamer) 112 lantern-flies from United States (193696, exchange); (through Jack C. Hall) 2 paratypes of bee flies (193982, exchange).

KEARSLEY, E. P., Jacksonville, Fla.: 2 ferns (193016).

KEENAN, CHARLES J., Portland, Oreg.: A Baltimore and Ohio first day cover (193830).

KEHRER, Dr. LOUIS, Olten, Switzerland: (Through Dr. Wendell P. Woodring) Approximately 5,000 Post-Pleistocene fresh-water and land snails (192711).

KELLOGG, Dr. REMINGTON, Washington, D. C.: A brown creeper (194284).

KELLY, Dr. W. A., East Lansing, Mich.: 100 invertebrate fossils from Las Dolecias, Coahuila, México and the type slide of *Isastrypa whitneyi* from Cretaceous of México (192656, exchange).

KENERSON, Prof. W. H., Providence, R. I.: Manograph (optical, reflecting, photographic engine indicator) marked "Manographe Hospitalier-Carpentier Breveté S G D G, J. Carpentier, Paris" (192776).

KENK, Dr. ROMAN, Alexandria, Va.: 16 flatworms, 3 oligochaetes, and 16 amphipods collected in Colorado and Alaska (192268); 9 flatworms collected by Betty Locker (193072).

KENNEDY, Lt. HARRY D., Bishop, Calif.: 7 mountain midges from California (192015).

KENNY, Mrs. J. P., Washington, D. C.: A woodcock (192170).

KENTUCKY, UNIVERSITY OF, Lexington, Ky.: 3 grasses from Kentucky (191479, 191760, 192173).

KERNODLE, GEORGE H., Washington, D. C.: Aneroid barometer, marked Beaumont's Barometer, patented June 14, 1859 (192408).

- KESSLER, FRED W., New York, N. Y.: A ceramic ash tray with reproduction of Uruguay "Pegasus" airmail design (193326). (See also Mrs. Louise Hoffman.)
- KETTLE, D. S., Glasgow, Scotland: 11 paratypes of 3 species of biting flies from Scotland (191419).
- KEVAN, D. E. McE., Sutton Bonington, Loughborough, England: 2 African grasshoppers (191696).
- KILHAM, Dr. LAWRENCE, Bethesda, Md.: A mink found dead on road near Potomac, Md. (191779); a painted turtle from Bombay Hook Wildlife Refuge, Del., collected by donor (192056).
- KILLIP, E. P., Washington, D. C.: Approximately 400 marine and land mollusks from Cuba and Jamaica (192336); 31 land, fresh-water and marine shells from Florida, Arizona, and Isle of Pines, Cuba, 5 corals from Florida, and 3 marine invertebrates (192337); earthenware bird effigy canteen made by the Chocó Indians and obtained by donor at Andagoya, Río San Juan, Dept. El Chocó, Colombia in 1939; also decorated earthenware bowl collected by Dr. J. N. Rose, in Tepic, Department of Nayarit, México (192396); 4 mosses and algae from the District of Columbia and vicinity (193384).
- KING, ROBERT C. (See Mrs. H. M. Patton.)
- KINGMA, J. WILLIAM, East Grand Rapids, Mich.: A cultivated fern (191793).
- KIRBY-SMITH, REYNOLD M. JR., Cocoa Beach, Fla.: Approximately 290 marine mollusks from Florida (191655, 194421).
- KIRKWOOD, CARL W., Summerland, Calif.: 2 moths from Arizona (192815).
- KISCH, BARTHOLOM S., St. Jean-de-Luz, Basses Pyrennes, France: 15 marine mollusks from St. Jean-de-Luz (193506).
- KJELLMERT, Dr. GÖSTA, Arboga Sweden: 1,020 European cryptogams (194372, exchange).
- KLOSOWSKI, ADAM. (See Polonus Philatelic Society.)
- KNAPP, GUTHRIE E., Riverdale, Md.: 45 ethnological specimens collected by donor prior to 1914 from various tribes and localities in the Philippine Islands, from the Kaffir of South Africa, and from Japan and China (191757).
- KNIGHT, J. BROOKES, Washington, D. C.: 4 Pliocene mollusks from off Long Boat Key, Fla. (194676).
- KNOWLTON, Dr. GEORGE F. (See Utah State Agricultural College.)
- KNOLL, Dr. DOROTHY J., Columbus, Ohio: 8 leafhoppers (192422).
- KOLB, HAVEN. (See Natural History Society of Maryland.)
- KOMAROV, V. L. Botanical Institute of the Academy of Sciences of the U. S. S. R., Leningrad: 316 plants from the U. S. S. R. (191381, exchange); 343 plants from western Siberia (194520, exchange).
- KONDO, YOSHIO. (See Bernice P. Bishop Museum.)
- KOPF, RUDOLPH, Buffalo, N. Y.: 21 Devonian gastropods from New York (190256).
- KORMILEV, Dr. N. A., Buenos Aires, Argentina: 27 bugs from Argentina (194309, exchange). (See also Instituto Nacional de Investigación de las Ciencias Naturales.)
- KOVELESKI, A. J. Scranton, Pa.: 8 models of early American automobiles, made by Scranton Hobby Center (192593).
- KRAN, EMMA E., Washington, D. C.: 2 fresh-water mollusks from Nelson, Ohio (194927).
- KRAPOVICKAS, Dr. A. (See Ministerio de Agricultura y Ganadería.)
- KRAUSE, DALE, Pasadena, Calif.: 2 Mississippian blastoids from Alamo Canyon, Alamogordo, N. Mex. (194213).
- KRAUSS, N. L. H., Honolulu, T. H.: 569 insects, 14 arachnids, a Peripatus, and an amphipod from Malaya, Australia, the Caribbean region, and the southeast Pacific islands (189037); 93 insects, 1 snake, 14 mollusks, and 21 crustacea from East Africa (192941); 160 insects and 22 snails from Zanzibar and Tanganyika (193499); 1 scorpion, 1 centipede, 15 snails, a slug, 3 lizards, and 5 tree frogs (193954); 5 scorpions and 2 spiders from Madagascar (194455); approximately 500 insects from Cuba (194524).
- KROCHMAL, S. BRADLEY. (See New Hampshire Fish and Game Department.)
- KROMBEIN, KARL V., Arlington, Va.: 61 wasps with associated prey or parasites collected in Kill Devil Hills, N. C. (193750); wasp holotype (193921); 94 wasps from West Virginia and North Carolina (194862).
- KRUKOFF, Dr. B. A. (See Experimental Plantations, Inc.)
- KRYGER, J. P., Flintinge, Denmark: Approximately 150 beetles from Europe (192106).
- KUCK, Sgt. MARTIN J., San Francisco, Calif.: 12 beetles, a spider, a weevil, a snake hide, a snake head, and 4 lucanid moths from Japan (192342, 193177).
- KUEGLER, NORMAN E. (See Wollensak Optical Company.)
- KUNO, Dr. HISASHI, Tokyo, Japan: 2 analyzed minerals: hypersthene from

Shichisei-zan, Formosa; hypersthene and augite from Odawara, Hakone Volcano, Kanagawa Prefecture, Japan (193949).

KUNTZ, Dr. ROBERT E. (See Department of Defense, *Department of the Navy, Naval Medical Research Unit No. 3.*)

KUSCHEL, Padre GUILLERMO, Santiago, Chile: 3 paratypes of weevils from Chile (194488).

KUSNEZOV, NICOLAS, Tucumán, Argentina: 111 ants from South America (191397, exchange). (See also Fundación Miguel Lillo.)

KUTER, Dr. H., Bern, Switzerland: 257 ants from all over the world (192946, exchange); 2 North American ants (194106, exchange).

KYOTO UNIVERSITY, *Zoological Institute*, Kyoto, Japan: (Through Dr. Tadashige Habe) 55 marine mollusks, including paratypes, from Japan (193961).

KYUSHU UNIVERSITY, Fukuoka, Japan: (Through Dr. Keizo Yasumatsu) 12 wasps from Japan (193980, exchange).

LA CASSE, Lt. Col. W. J. (See Department of Defense, *Department of the Army.*)

LACNER, Dr. ERNEST A., Washington, D. C.: 16,417 fresh-water fishes, 118 crustaceans, 84 amphibians and reptiles, 17 insects, 61 mollusks, collected by donor in Eastern and Southeastern United States (183793).

LAKELA, OLGA. (See University of Minnesota.)

LAMB, Mrs. BASIL E., Portland, Maine: Spun silk dress worn by Caroline Frances Riggs, Georgetown Island, Maine, in 1859 (192495).

LAMEGO, Dr. ALBERTO. (See National Department of Mineral Production.)

LAMM, DONALD V., Lourenço Marques, Portuguese East Africa: 379 bird skins from Mozambique (191143, 194283).

LANDAUER, Dr. ERIC, Storrs, Conn.: 13 slides of Manchurian fleas (190938).

LANDERS, T. L., Chicago, Ill.: Shoulder-sleeve insignia of the Thirteenth Engineers, United States Army 1917-19 (191572).

LANDO, Lt. ROBERT E., San Francisco, Calif.: Approximately 325 marine and land mollusks, and 6 crustacea from Japan (193962).

LANGILLE, LETITIA A., Washington, D. C.: Striped wool shawl purchased in Rochester, N. Y. in 1870 by Mrs. James H. Langille (192181).

LANKESTER, C. H., Cartago, Costa Rica: 2 plants from Costa Rica (191999).

LANKSBURY, W. A., Brooklyn, N. Y.: British medal of 1848 (194221).

LA RIVERS, Dr. IRA, Reno, Nev.: 21 fresh-water mussels from Pyramid Lake, Nev. (193504).

LATHAM, ROY, Orient, N. Y.: Sea urchin from off Montauk, N. Y. (194245).

LAUDON, LOWELL R., Madison, Wis.: 90 Mississippian crinoids from Bridger Mountains, Mont. (194765).

LAURENCE, ROBERT, New York, N. Y.: Philatelic Christmas card of 1881 (193462).

LAZAR, YUSUF. (See Dr. Henry Field.)

LAZZARI, PIETRO, Washington, D. C.: Drypoint "Horse," by donor (193390).

LE COMPTE, Dr. MARIUS. (See Institut Royal Sciences Naturelles de Belgique.)

LEDÓN, OSCAR ALCALDE, Cienfuegos, Cuba, and JACOBSON, MORRIS K., Rockaway, N. Y.: 368 land mollusks from Cuba (182020).

LEE, Dr. DAVID J. (See University of Sydney.)

LEE, Mrs. SALLY D., Hyattsville, Md.: 3 marine mollusks from Rehoboth Beach, Md. (192187); 23 marine mollusks from the Indo-Pacific region (192504); 30 fossils from the vicinity of Brightseat, Md. (194378).

LEECH, Dr. HUGH B., San Francisco, Calif.: 23 water beetles (193633).

LEESON, Dr. H. S. (See London School of Hygiene and Tropical Medicine.)

LEONARD, E. C., Washington, D. C.: 4 plants from vicinity of Washington (193160).

LE SÉMINAIRE DE RIMOUSKI, Rimouski, Quebec: (Through Rev. A. A. de Champlain) 107 fresh-water mollusks from Alaska and Quebec (184899, 192875).

LEYERZAPF, Dr. HERMANN, Mainz, Germany: Uraninite crystal from Katanga, Belgian Congo (191765, exchange); 1 curite and soddyite from Shinkolobwe, Africa (193507, exchange).

LIBERIA, REPUBLIC OF, Monrovia, Liberia: (Through Hon. McKinley A. DeShield) 42 postage stamps of Liberia (191771).

LICARI, ROY N., Alexandria, Va.: Korean War patriotic cover with Army Air Force Postal Service A. P. O. cancel and flag (192102).

LIMBACH, RUSSELL T., Middletown, Conn.: Lithograph, "Winter," by donor (194559).

LIN, Dr. SHU-YEN, Port-au-Prince, Haiti: Fish from Port-au-Prince Bay (192177). (See also Food and Agriculture Organization of the United Nations.)

LINDROTH, Dr. CARL H., Lund, Sweden : 48 Coleoptera reprints for the T. L. Casey Collection (192787) : 13 beetles from Labrador (192851).

LITTLEFORD, ROBERT A. (See J. Frances Allen.)

LITTLEWOOD, WILLIAM H. (See Department of Defense, *Department of the Navy, Hydrographic Office.*)

LOCKER, BETTY. (See Federal Security Agency, *Public Health Service.*)

LOCKLIN, CHARLES R., St. Petersburg, Fla. : 9 gastropods from Chipola formation, Florida (193746) ; 2 glacial pot-hole boulders from New England (193825).

LOESCH, HAROLD, College Station, Tex. : Approximately 221 marine mollusks (192308).

LONDON SCHOOL OF HYGIENE AND TROPICAL MEDICINE, London, England : 82 British mosquitoes from the collection of J. F. Marshall (191637) ; (through Dr. H. S. Leeson) 76 British mosquitoes (192020, exchange).

LONGENOTTI, Mrs. HELEN H. (See Society of Philatelic Americans.)

LOPP, OSCAR V. (See Federal Security Agency, *Public Health Service.*)

LOUISIANA STATE UNIVERSITY, Baton Rouge, La. : 24 plants from México (191359) ; 97 plants collected in México by Mr. and Mrs. Richard Graber (192967) ; (through Dr. Lewis Flint) fresh-water alga (194100).

LOVE, Dr. ASKELL. (See University of Manitoba.)

LOWERRE, F. G., Rockaway, N. J. : 11 marine and fresh-water mollusks from West Africa, Chile, and New Jersey (190896).

LYELL, PATTY S., Richmond, Va. : Pair of U. S. Naval Officer's epaulettes, 1847-1861 (191646).

LYMAN, FRANK, Lantana, Fla. : Mollusk from Hope Town, Little Guana Cay, Bahamas ; 5 mollusks from Florida (192429).

LYMAN, JOHN. (See Department of Defense, *Department of the Navy, Hydrographic Office.*)

LYNCH, R. F. (See Department of Defense, *Department of the Navy, Office of Naval Research.*)

MACCORD, Maj. HOWARD, A., Dayton, Ky. : Skull (without face) of Indian, from Keyser Farm Site, Page County, Va. (193151) ; 54 fresh-water mussels from an Indian Village site, Campbell Co., Ky. (193764).

MACEDO, Dr. AMARO, Ituiutaba, Minas Gerais, Brazil : 257 plants and 43 grasses from Brazil (191276, 192174, 193156, 193299).

MACKE, Dr. WILLIAM B., Cincinnati, Ohio : 14 Devonian brachiopods from southern Indiana (193636).

MACKENZIE, Mrs. JAMES, Farmingdale, N. J. : Homespun blanket carried during the Civil War by Joel Harvy Ainsworth (193839).

MACNAE, WILLIAM. (See Rhodes University.)

MACSWAIN, J. W., Berkeley, Calif. : 6 beetle paratypes from California (191707, exchange).

MAEHLER, Dr. K. A., Honolulu, T. H. : Giant East African Land Snail from Guam (194385).

MAGEE, Maj. Gen. JAMES C., Washington, D. C. : Officer's pistol belt and holster and holster pistol, World War II period (191507).

MAHURIN, S., Meridian, Miss. : A marcasite concretion, found where the Buffalo River flows into Peace River, Alberta, Canada (192411).

MALKIN, BORYS, Seattle, Wash. : 41 insects (194301).

MANILA PUBLIC HEALTH RESEARCH LABORATORIES, *Department of Health*, Manila, P. I. : (Through Dr. Walfrido de Leon) Approximately 402 mosquitoes from Philippines collected by 19th Medical General Laboratory and by Naval Medical Research Unit (192104).

MANITOBA, UNIVERSITY OF, Winnipeg, Manitoba : (Through Dr. Aske Love) Moss from Iceland (193738).

MANKINS, MARY JANE, Le Grand, Calif. : Beetle from California (192327).

MANN, M. D., Jr., Roselle, N. J. : Cultivated fern (192984).

MANter, Dr. HAROLD W., Lincoln, Nebr. : 8 fishes from Suva, Fiji Islands (191463).

MARBLE, Dr. JOHN P., Washington, D. C. : Monazite from pegmatite collected at Santa Cruz, Brazil (192297). (See also Prof. G. P. Baxter and Dr. Oscar B. Muench.)

MARKS, ELIZABETH N., Cambridge, England : 12 mosquitoes from Fiji, reared in laboratory colony at Cambridge, England (192499).

MARKS, P., JR., Utrecht, Netherlands : 11 Foraminifera from the Tertiary of Algeria (194041, exchange).

MARSHALL, ERNEST B., Laurel, Md. : 14 mammal skulls from Laurel (193501).

MARSHALL, Dr. N. B. (See British Government, *British Museum (Natural History).*)

MARTIN, LEWIS, Washington, D. C. : 2 Recent Foraminifera from Atlantic Ocean (194479).

MARTORELL, Dr. LUIS F., Rio Piedras, P. R. and CALDWELL, Dr. JOHN S., Cir-

cleville, Ohio: Approximately 4,308 miscellaneous Neotropical Homoptera and Heteroptera (192016).

MARTYN, E. J., Hobart, Tasmania: 100 larvae and 24 adult beetles from Australia (192497).

MASSACHUSETTS, UNIVERSITY OF, Amherst, Mass.: Grass from Massachusetts (191887).

MASTERS, C. O., Cleveland, Ohio: 50 mosquitoes from Assam (194921).

MATTOX, Dr. N. T., Mayaguez, P. R.: 2 shrimps, 15 Conchostracan types, approximately 12 Hydroid cotypes, and 1 insect (191341). (See also University of Puerto Rico.)

MATUDA, Prof. EIZI, México, D. F.: 47 grasses and 39 plants from México (192049, 192450).

MAULL, CATHARINE. (See Sussex Archaeological Association.)

MAXIMUM CARD SOCIETY OF AMERICA, New York, N. Y.: (Through Merlin F. Teed) Seal and proof of the Maximum Card exhibition of December 1, 1951 (192601), (through Florence Palma) first day cover, October 24, 1951, franked with 1-cent and previously released 2-cent stamp (192785).

MAYER, FRITZ, Hamburg, Germany: 12 fishes (191006).

McALPINE, Dr. J. F. (See Canadian Government, *Department of Agriculture*.)

McCARY, Dr. B. C., Williamsburg, Va.: 333 potsherds from test holes and stratigraphic blocks, Potts site, New Kent County, Va. (192032).

MCCASKILL, L. W., Christchurch, New Zealand: 3 plants from New Zealand (193573).

McCAULEY, Dr. JAMES E., Charleston, Oreg.: Sea slug from Oregon (191369).

MCCATCHIE, Capt. SAMUEL, San Francisco, Calif.: 113 plants from Korea (192591).

MCCINTOCK, E. P. (See Office of the Australian Government Trade Commissioner.)

MCCONNELL, Prof. DUNCAN. (See Ohio State University.)

MCCOY, Mrs. ETHEL B., New York, N. Y.: Silk scarf with reproductions of United States 1938 Presidential stamps (193105, loan); silk handkerchief with Landing of Columbus design as used on 2-cent Columbian stamp, 1898 (193106).

MCCREA, Dr. LOWRAIN E., Philadelphia, Pa.: (Through Marietta Solimeo) 35 millimeter reflex camera, cystoscope, electric control box and timer (191414).

MCCULLOCK, Dr. IRENE, Los Angeles, Calif.: 8 Recent Foraminifera from México (193866, exchange).

McDERMOTT, F. A., Wilmington, Del.: Holotype and 6 paratypes of fireflies

from United States (192943); 4 larvae of fireflies with sample of host snail from Jamaica (194885).

McDUNNOUGH, Dr. J., Halifax, Nova Scotia: 5 moths from Nova Scotia (193759).

McELROY, JESSIE (deceased): (Through Mrs. Hiland G. Batcheller) Gray satin dress worn by Mary Arthur McElroy, sister of President Chester Arthur and First Lady of the White House during his administration (191415).

McELVARE, ROWLAND R., Port Washington, N. Y.: 4 moths including holotype (192790, exchange).

MCGARR, Lt. H. J., Fairbanks, Alaska: Alaskan bear (192427).

MCGILL UNIVERSITY, *Redpath Museum*, Montreal, Quebec: 8 Black River fossils from Quebec (175995, exchange).

MCGINTY, THOMAS L., Boynton Beach, Fla.: 382 miscellaneous marine invertebrates, 75 mollusks, 56 fishes, and echinoderms collected off Palm Beach, summer of 1951 (192368); spider crab from off Palm Beach (193071).

McLACHLAN, LANIER P., Washington, D. C.: A. A. A. first day cover and 7 assorted stamps from Switzerland, Denmark, and France (194613).

McLAREN, Dr. D. J. (See Canadian Government, *Geological Survey of Canada*.)

McMICKLE, Mrs. HELEN F., Washington, D. C.: White muslin chemise and pantalets, 1856, and black silk quilted hood, 1850-1860 (191506); 8 specimens of early American embroidery and drawn work (194476).

MEACHAM, EUGENE, Washington, D. C.: 2 antique tapestries woven in Belgium (192279).

MEAD, GILES, Stanford University, Calif.: A fish (191495).

MEANLEY, BROOKE, Stuttgart, Ark.: 17 snakes from Stuttgart (192482); 3 birds from Maryland (194688).

MEDCOF, Dr. J. C. (See Canadian Government, *Fisheries Research Board of Canada*.)

MEHTA, DHIRUBHAI, Ghatkopar, India: 4 Mahatma Gandhi post cards (192600).

MELLEN, FREDERICK F., Jackson, Miss.: 28 brachiopods from Rockhouse shale of west Tennessee (194662).

MENGERS, Rev. C. RANDOLPH, Washington, D. C.: Silver medal of Portugal dated 1898 (192100).

MENZIES, Dr. ROBERT J., Davis, Calif.: 3 isopods from California (194263).

MERCK AND Co., INC., Rahway, N. J.: 5 plants from Guatemala (190175, 190463).

MERRIMAN, DANIEL. (See Yale University.)

MIAMI, UNIVERSITY OF, Coral Gables, Fla.: A fern (191007); plant collected in Florida (192841); (through Dr. Hilary B. Moore) approximately 300 marine mollusks from off Miami (192608).

MICHAEL, Dr. C. A., Austinville, Va.: Potsherds from Cornett Site, Wythe County, Va. (193085).

MICHENER, Dr. C. D., Lawrence, Kans.: 4 mites from United States (194108).

MICHIGAN, UNIVERSITY OF, Ann Arbor, Mich.: 2 lichens collected by Henry A. Imshaug (191761, exchange); 77 grasses from Michigan, collected by Charles D. Richards (193297); (through Mrs. Joyce Jones) 89 Rocky Mountain lichens (193964, exchange).

MILES, CECIL, Bogotá, Colombia: Fish, holotype of a new pomadasid, from the Colombian Caribbean (191763).

MILES, WILLIAM, Wagarup, West Australia: 4 recent brachiopods from West Australia (192265).

MILLER, THOMAS P., Youngstown, Ohio: A 5" x 7" glass plate negative made by donor in 1928 of W. S. "Daddy" Lively, well known photographer of the nineteenth century (193222).

MILER, Comdr. WALTER B., Seattle, Wash.: 2 land mollusks from the Shenandoah National Park, Va. (191908).

MILLIRON, Dr. H. E., Newark, Del.: 64 bumble bees from South America (193354, exchange).

MINERALOGISK-GEOLOGISK MUSEUM, Oslo, Norway: (Through Dr. Heinrich Neumann) Weibyte from Ovre-Arø Island, Langsundfiord, Norway (192325, exchange).

MINISTERIO DA VIAÇÃO E OBRAS PÚBLICAS, Fortaleza, Ceará, Brazil: 2 plants collected in Brazil (191890); (through Dr. Valdemar C. De Franca) 9 fishes from Rio São Francisco, Pernambuco, Brazil (194011).

MINISTERIO DE AGRICULTURA Y GANADERÍA, Córdoba, Argentina: (Through Dr. A. Krapovickas) 5 plants from Argentina (194077).

MINNESOTA, UNIVERSITY OF, St. Paul, Minn.: 6 fresh-water mollusks from Beltrami County, Minn. (191869); 129 lichens from Minnesota collected by Bruce Fink (193251, exchange); 68 plants of Minnesota (194289, exchange); (through Dr. H. J. Griffiths) 53 fresh-water mollusks from Minnesota (191605, 191708); (through Olga Lakela) 21 ferns from Minnesota (193148, gift-exchange).

MIRSA, Dr. A. (See Instituto Nacional de Higiene.)

MISSOURI BOTANICAL GARDEN, St. Louis, Mo.: 340 plants (192282, exchange); 73 plants of Missouri collected by Julian A. Steyermark (193937, exchange).

MITCHELL, R. T. (See Department of the Interior, *Fish and Wildlife Service*.)

MITCHELL, RODGER D., Ann Arbor, Mich.: 15 slides of mites (192740).

MITTLEMAN, M. B., Larchmont, N. Y.: 6 salamanders, types and paratypes of 2 new species (189761).

MODELL, Dr. HANS, Weiler/Allgäu, Germany: 1,000 land and fresh-water mollusks from Germany, and 500 fossil fresh-water mollusks (194311).

MOECK, ARTHUR H., Milwaukee, Wis.: 7 butterflies from North America (193755).

MOHLER, Mrs. J. W., Chevy Chase, Md.: Decorated coiled basketry bowl from Maidu Indians, north central California (191668).

MONTANA STATE COLLEGE, Bozeman, Mont.: A grass from Montana (191483).

MOONEY, MARK, Baltimore, Md.: Simplex exposure meter, Wager Definition Scale, and blueprint photograph (194601).

MOORE, Prof. GEORGE. (See Oklahoma Agricultural and Mechanical College.)

MOORE, Dr. H. E., JR. (See Bailey Hortorium.)

MOORE, Dr. HILARY B. (See University of Miami.)

MOORE, JOSEPH C. (See Department of the Interior, *National Park Service*.)

MOORE, Dr. WALTER G., New Orleans, La.: 2 type copepods (194839).

MORENO, Mrs. THERESE MARIE, Washington, D. C.: Chair-back cover, yellow satin with design patterns of silk thread applique and couching with gold thread (193930).

MORGAN, GEORGE D., Tampa, Fla.: Plant from Florida (191896).

MORRISON, Dr. JOSEPH P. E., Washington, D. C.: Approximately 22,000 mollusks, 12 mammals, reptiles, 50 insects, and approximately 278 crustacea, from Virginia, Pennsylvania, Maryland, West Virginia, Kentucky, and Missouri, collected in 1934, 1943, and 1947-51 (191910).

MORRISON, Dr. P. R. (See University of Wisconsin.)

MORROW, JAMES E. (See Yale University.)

MORTENSEN, WILLIAM, Laguna Beach, Calif.: 7 pigment process prints (194219).

- MORTON, Dr. ARTHUR O., Sarasota, Fla.: Keratometer (191792).
- MOSHER, STUART. (See Mrs. N. Pernot.)
- MOUL, EDWIN T., New Brunswick, N. J.: 10 birds from the Gilbert Islands (193931).
- MOZLEY, Dr. ALAN, Schenectady, N. Y.: 139 fresh-water mollusks (193960).
- MUELLER, OSCAR O., Lewistown, Mont.: Skull of grizzly bear found at Lewistown (193635).
- MUENCH, Dr. OSCAR B., Las Vegas, N. Mex.: (Through Dr. John P. Marble) Monazite from 15 miles north of Las Vegas (192298).
- MUSEBECK, C. F. W. (See U. S. Department of Agriculture, *Bureau of Entomology and Plant Quarantine*.)
- MUIR-WOOD, Dr. HELEN. (See British Government, *British Museum (Natural History)*.)
- MULLER, Dr. C. H., Santa Barbara, Calif.: 293 plants from Texas (191489).
- MUMA, Dr. MARTIN H. (See University of Florida.)
- MUMFORD, RUSSELL E., West Lafayette, Ind.: 7 bats from Indiana (193449); 21 bats in alcohol from Indiana (193717, 194032). (See also Purdue University.)
- MUNRO, Dr. H. K. (See Union of South Africa.)
- MUNROE, Dr. EUGENE G. (See Canadian Government, *Department of Agriculture*.)
- MURAUCHI, Dr. SADANORI. (See National Science Museum.)
- MURCH, Lt. Comdr. ROBERT W., Annapolis, Md.: Cached cover marking first flight of naval aircraft from first Naval Aviation Camp, Annapolis, Md., autographed by Lt. John L. Clarke (192-101).
- MURRAY, Mrs. ANNE W., Washington, D. C.: Earthenware syrup jug, Bennett Pottery, Baltimore, Md. (192649).
- MURRAY, Dr. J. J., Lexington, Va.: Savannah sparrow (192536).
- MURRAY, WILLIAM S., South Hill, Va.: Hognose snake from Phyllis, Va. (194522).
- MUSÉE BOTANIQUE CANTONAL, Lausanne, Switzerland: 300 plants from Switzerland (193361, gift-exchange).
- MUSÉE DU CONGO BELGE, Tervueren, Belgium: 2 Congo peacocks (193215).
- MUSEO DE HISTORIA NATURAL "JAVIER PRADO", Lima, Perú: 1,436 plants collected in Perú by Dr. Ramón Ferreyra and assistants (191491, 193486, 193489); 39 Peruvian grasses collected by Emma Cerrate (194552).
- MUSEO NACIONAL DE CIENCIAS NATURALES, Madrid, Spain: Specimen of the Colomera, Spain, meteorite (194794, exchange).
- MUSEU GOELDI, Belém, Brazil: 2 plants from Brazil (194555).
- MUSEU NACIONAL, Rio de Janeiro, Brazil: (Through Dr. Walter Curvello) 3 Brazilian meteorites (194211, exchange).
- MUSEU PARANAENSE, Curitiba, Paraná, Brazil: 30 grasses and 16 phanerogams from Brazil (189571, 191490); (through Dr. C. N. Goffert) 31 marine mollusks from states of Paraná and Santa Catarina, Brazil (193838, exchange).
- MUSEUM NATIONAL D'HISTOIRE NATURELLE, Paris, France: Rosieresite from Rosieres, near Carmaux, France (194294); (through Dr. Jean Guibé) 8 frogs from Goyaz, Brazil collected by Dr. J. Vellard (191727, exchange); (through Prof. J. Orcel) Ambatoarinite, from Ambatoarina, Madagascar (192972, exchange); (through Dr. E. Séguy) South American fly, cotype (193308); 7 flies and midges from Crozet and Kerguelen Islands (194774); (through Dr. L. Berland) 3 wasps from Madagascar (193831, exchange).
- MUSEUM OF NATURAL HISTORY, Reykjavik, Iceland: 100 plants from Iceland (190688, exchange).
- MUTUAL SECURITY AGENCY, U. S. A. *Special Technical and Economic Mission to Thailand*, Chiangmai, Thailand: (Through Lt. Comdr. Deed C. Thurman, Jr.) 42 mammals from Chiangmai (194923).
- MYERS, Dr. G. S. (See Stanford University.)
- MYERS, Hon. WALTER. (See Post Office Department.)
- MYKLEBOST, TOR. (See Norwegian Embassy.)
- MYLONAS, ALEXANDER, Athens, Greece: (Through U. S. Department of State) 2 medals issued in memory of Cretan revolutionists, 1898 (194344).
- NADEAU, Mrs. BETTY, Woodbury, N. J.: Foraminiferal sample of Midway formation (194482).
- NAGLE, J. STEWART, Schuylkill Haven, Pa.: Approximately 50 Middle Devonian fossils from vicinity of Schuylkill Haven (192074).
- NATIONAL DEPARTMENT OF MINERAL PRODUCTION, Rio de Janeiro, Brazil: (Through Dr. Alberto Lamego) Orville A. Derby Memorial Medal, struck as part of Orville A. Derby Centennial Celebration, 2 special postage stamps and 2 "Symposiums" on the life of Derby (192684).
- NATIONAL GEOGRAPHIC SOCIETY, Washington, D. C.: (Through Carnegie Mu-

seum) 75 birds from Venezuela (193176).

NATIONAL HERBARIUM, Sydney, N. S. W.: 2 cultivated plants (191873); 308 plants from Australia (191894, 192403, 193487, 193741, exchange).

NATIONAL MUSEUM, Manila, P. I.: (Through Dr. Eduardo Quisumbing) 50 land shells from the Philippines (194776).

NATIONAL MUSEUM OF VICTORIA, Melbourne, Australia: (Through Dr. A. N. Burns) 675 Australian ants (191700, exchange).

NATIONAL PHOTOGRAPHIC SOCIETY, Washington, D. C.: (Through Harry B. Shaw) 55 monochrome prints and 73 color transparencies for exhibition during December, 1951 (193100, loan).

NATIONAL RESEARCH COUNCIL, *Pacific Science Board*, Washington, D. C.: (Through Dr. J. L. Gressitt) 3 beetles from Koror Island, Palau, collected by H. S. Dybas in 1948 (194919). (See also Smithsonian Institution, *U. S. National Museum*, collected by members of the staff.)

NATIONAL SCIENCE MUSEUM, Tokyo, Japan: (Through Dr. Sadanori Murauchi) 3 miharaite specimens from Oshima, Japan (194673, exchange).

NATIONAL SPELEOLOGICAL SOCIETY, Washington, D. C., and BLIZZARD, Mrs. JAMES, Lowmoor, Va.: 2 isopods and 9 insects from Lowmoor Quarry Cave, Alleghany County, Va. (192369).

NATIONAL SPELEOLOGICAL SOCIETY, Washington, D. C.: (Through Benton T. Hickok) 62 pictorial prints for special exhibition during November 1951 (192597, loan).

NATIONAL TAIWAN UNIVERSITY, Taipei, Taiwan, China: 320 plants mostly collected in Taiwan by Sasaki and collaborators (194290, exchange).

NATURAL HISTORY SOCIETY OF MARYLAND, Baltimore, Md.: (Through Richard E. Stearns) Archeological material from sites in Maryland, District of Columbia, Florida, Georgia, and South Carolina (191329, exchange); (through Haven Kolb) blue crested Turaco (191404).

NATUSCH, Mrs. GILBERT, Wellington, N. Z.: 6 plants from New Zealand (193091).

NEEDHAM, R. M., Lancaster, Ohio: First day covers, Battle of Brooklyn, Betsy Ross, 4-H, Baltimore and Ohio, American Automobile Association, and N. A. T. O. (194483).

NEILAND, KENNETH A. (See Clyde M. Senger.)

NEUBURG, Dr. GEORGE, Spokane, Wash.: Allanite from Pacoima Canyon,

near Los Angeles, Calif., and nontronite from near Freeman, Wash. (194856).

NEUMANN, Dr. HENRICH. (See Mineralogisk-Geologisk Museum.)

NEWELL, Dr. IRWIN M., Honolulu, T. H.: 17 slides of mites from South Pacific (192333).

NEWMAN, Dr. EMANUEL, Vienna, Va.: 7 foreign coins (193627).

NEW HAMPSHIRE FISH AND GAME DEPARTMENT: (Through S. Bradley Krochmal) Approximately 100 copepods from gills of salmon (191234).

NEW MEXICO, UNIVERSITY OF, Albuquerque, N. Mex.: (Through Robert J. Drake) 2 land snails from Boquillas, Coahuila, México (191881).

NEW MEXICO BUREAU OF MINES AND MINERAL RESOURCES, Socorro, N. Mex.: (Through Henry J. Jicha, Jr.) 100 invertebrate fossils, Mississippian and Pennsylvanian rocks of Lake Valley quadrangle, New Mexico (193520); (through R. H. Jahns) 2,500 invertebrate fossils from Ordovician, Devonian and Pennsylvanian rocks near Chiz, N. Mex. (194215).

NEW MEXICO DEPARTMENT OF GAME AND FISH, Santa Fe, N. Mex.: (Through Howard Campbell) 15 parasitic nematodes from scaled quail, New Mexico (193766).

NEW YORK BOTANICAL GARDEN, New York, N. Y.: 40 United States grasses collected by F. L. Bennett and Floyd Bartley (189793); 100 plants collected in Kashmir by R. R. Stewart (191629, exchange); plant from Argentina (191889); 163 plants collected in Venezuela by Dr. Bassett Maguire and associates (192283, exchange); 154 plants, 91 grasses, 194 ferns collected in Venezuela by Dr. Bassett Maguire and associates (192285, 192316, 192771, 192986); 800 plants of Vernay Nyasaland Expedition, 1946, collected by Dr. L. J. Brass (193934, exchange); 300 plants collected in Ecuador by W. H. Camp (194553, exchange); (through Dr. Donald P. Rogers) 39 Puerto Rican algae (194369, exchange).

NEW YORK UNIVERSITY, New York, N. Y.: (Through Marcus S. Goldstein) Palatometer, Stanton's device for measuring height of palate (192168).

NIELSEN, Dr. ETLAR L. (See U. S. Department of Agriculture, *Bureau of Plant Industry, Soils, and Agricultural Engineering*.)

NIHO, TAKECHIKA, Sapporo City, Japan: 4 mint copies each, 5-yen and 10-yen Red Cross issue of Japan; first day cover, Red Cross issue; 2 copies of 5-yen and 7 of 10-yen value (194560).

NIKIJULUW, KAREL J. V., New York, N. Y.: Souvenir card bearing 4 South

Moluccan stamps (193514). (See also Republic of the South-Moluccas.)

NORMAN, Mrs. MARIUS, Uganda, Africa: 62 plants from Uganda (194412).

NORRISH, K., Harpenden, Herts, England: Priderite from Wolgidity, Wolgidee Hills, West Kimberley, western Australia (194790).

NORTH CAROLINA, UNIVERSITY OF, Chapel Hill, N. C.: 53 plants from southeastern United States (193617, exchange).

NORTH CAROLINA STATE COLLEGE OF AGRICULTURE, Raleigh, N. C.: 34 Mexican ferns (191715); 397 plants from southeastern United States (191762, 193821, exchange); 2 plants from North Carolina (192926).

NORTH DAKOTA AGRICULTURAL COLLEGE, Fargo, N. Dak.: 224 plants from North Dakota (192843, gift-exchange).

NORVELL, Col. and Mrs. STEVENS T. (deceased): (Through Mrs. Alice Norvell Hunt) 33 ethnological specimens from the Southwest and Great Plains collected by the donors (194890).

NORWEGIAN EMBASSY, Washington, D. C.: (Through Tor Myklebost) 1 copy of each of the following postage items of Norway: 30-ore King Haakon postage stamp, 30-ore official stamp, 60-ore official stamp, 30-ore letter card; 2 55-ore aerograms; 3 Norway Olympic Winter Games stamps; 2 Norwegian official stamps; 1 postage stamp (192415, 192599, 192847, 194605); (through Tor Myklebost and Odd Hjorth-Sørensen) Norwegian King Haakon stamp, 30 surcharged on 25-ore; 55-ore, blue, King Haakon stamp (193065).

NOTH, Dr. R., Vienna, Austria: 124 Foraminifera from Cretaceous of Austria (194557, exchange).

NUTTING, W. H., Oakland, Calif.: 2 beetles from California (194300, exchange).

OBRECHT, CARL B. (See University of Detroit.)

ODLAUG, Prof. THERON O., Duluth, Minn.: Type trematode from Minnesota (191308).

OFICINA DE CONTROL DE ESPECIES POSTALES Y FILATELIA, Managua, Nicaragua: (Through Augustin Vanegas P.) 339 Nicaraguan stamps (194456).

OGAWA, TOMOZO, Saitama Prefecture, Japan: Suit of Japanese armor of Tokugawa period (1600-1868) (194279).

O'HABE, JOHN B., Hyattsville, Md.: Albino pilot blacksnake collected near Upper Marlboro, Md., by donor (192198).

OHIO STATE UNIVERSITY, Columbus, Ohio: 3 plants from Ohio (193162); (through Prof. Duncan McConnell) 1 viséite from Visé, Belgium (193947).

OINOMIKADO, Dr. TSUNETERU, Tokyo, Japan: 17 Foraminifera from Pliocene of Japan (193625, exchange).

OKLAHOMA AGRICULTURAL AND MECHANICAL COLLEGE, Stillwater, Okla.: 109 plants from Oklahoma (193385, exchange); (through Prof. George Moore) 5,115 fishes from the Arkansas and Red Rivers (194779, exchange); (through Prof. I. E. Wallen) 107 land and fresh-water mollusks from Oklahoma (194870).

OLD, WILLIAM E., JR., Norfolk, Va.: Approximately 200 fresh-water, land and marine mollusks, 2 insects, and crustacea from Korea, Japan and the Solomon Islands (192503); approximately 2,300 land and fresh-water mollusks from Kansas (194778, exchange).

OLIVARES, Father ANTONIO, Washington, D. C.: 675 bird skins from Colombia (193734).

OLIVER, SMITH HEMPSTONE, Washington, D. C.: Envelope bearing "Save Water" cancellation; 2 unused War Department franked envelopes of World War I period (192420); 4-liter glass butter churn (193941).

OLIVIER, Dr. LOUIS J. (See Federal Security Agency, *Public Health Service*.)

OLMSTEAD, FRANK E., Potsdam, N. Y.: 6 cedar sap spouts, 3 iron sap spouts, and 3 iron spikes (194893).

OLSSON, A. A., Langhorne, Pa.: A rare marine shell from Manta, Ecuador (191509); paratype of pelecypod, new subspecies from Pliocene or Pleistocene of Panamá (191647). (See also Academy of Natural Sciences of Philadelphia.)

"ORBIS," Praha, Czechoslovakia: 3 Czechoslovakian World Youth stamps, and first day cover; 2 Komensky commemorative stamps (194632).

ORCEL, Prof. J. (See Muséum National d'Histoire Naturelle.)

ORCHARD, C. D., San Antonio, Tex.: 12 lichens and 19 mollusks from Texas (193673).

OREGON, UNIVERSITY OF, Eugene, Ore.: Phanerogam from Oregon (191996).

OREGON FISH COMMISSION, Clackamas, Ore.: (Through Dr. A. D. Bajkov) Approximately 200 fresh-water mollusks from Columbia River, Ore. (194669).

OREGON STATE COLLEGE, Corvallis, Ore.: Holotype and 4 paratypes of tapeworm n. sp., from Oregon (192584); (through Ivan Pratt) 4 fresh-water snails from Oregon (192490).

ORTIZ ECHAGÜE, JOSÉ, Madrid, Spain: 76 Carbon Fresson prints for exhibition during May, June, 1952 (194797, loan).

ÖRVIG, Dr. TOR, Stockholm, Sweden: 3 brachiopods from Silurian of Gotland

(194663). (See also Swedish Museum of Natural History.)

OSMUN, Brig. Gen. R. A., Westmoreland Hills, Md.: 20 ethnological specimens from Northern Burma and Assam collected by donor in 1942-43 (194847).

OSMUNDSON, A. G., Webster City, Iowa: Queen tiling spade (193940).

OTIS, LEROY M., Muirkirk, Md.: Crystal of corundum from west of Manakara, Madagascar (194788).

OVERHULSE, Mr. and Mrs. THOMAS, Kotzebue, Alaska: 346 insects from Alaska (192424).

OVERSTREET, Mrs. WILLIAM. (See Children of Mr. and Mrs. Marcellus Cole.)

OWRE, MRS. HARDING B., Ann Arbor, Mich.: Nemertean obtained on cruise of the *Caryn*, Woods Hole Oceanographic Institution (192157).

OWSLEY, MRS. CHARLES, Washington, D. C.: Painting on cloth scroll from the Nashi, northwest Yunnan, China (194655).

PALEONTOLOGISK MUSEUM, Oslo, Norway: (Through Dr. G. Henningsmoen) 5 Lower Ordovician brachiopods from Norway (193096, exchange).

PALMA, FLORENCE. (See Maximum Card Society of America.)

PALMER, ERNEST J., Webb City, Mo.: 31 grasses from Missouri (192825).

PARHAM, B. EL., Suva, Fiji: Plant from Fiji (191407).

PARKER, FRANCES, La Jolla, Calif.: 36 Recent foraminifers from Barnstable Marsh, Mass. (191680, exchange); 5 Recent Foraminifera from the Atlantic (194042).

PARKHURST, JOSEPH L., Jr., Colonia, N. J.: 23 marine mollusks from Malta (194049).

PARNAU, JOHN L., Stockton, Calif.: Spangolite from Majuba Hill, Pershing County, Nev. (194914, exchange).

PARODI, Dr. LORENZO R., Buenos Aires, Argentina: 12 grasses from Argentina (193933, exchange).

PARSONS, JAMES, Lewes, Del.: 2 adjoining pottery sherds of the type Marcey Creek Plain (193214). (See also Sussex Archeological Association.)

PATTERSON, J. T., Lanford Station, S. C.: (Through Frank L. Hess) Vermiculite ore from 2 miles east of Lanford Station (194859).

PATTON, Mrs. H. M., Arlington, Va.: (Through Robert C. King) Embroidered cope of Russian Orthodox priest acquired in Russia about 1925 (194280).

PEARSE, Dr. A. S., Durham, N. C.: 12 shrimps, 290 copepods, 23 barnacles, and 26 isopods containing 23 type lots collected in Texas (191803, 192531).

PEARSON, Mrs. LOUISE M., Washington, D. C.: First day cover of United Confederate Veterans stamp (192786).

PECHUMAN, Dr. L. L., Lockport, N. Y.: 3 horseflies (194459, exchange).

PECORA, Dr. WILLIAM T., Washington, D. C.: 6 minerals from Bearpaw Mountains, Mont. (194793).

PENN, Dr. GEORGE H. (See Tulane University.)

PENNINGTON, W. E., Tampa, Fla.: Whale tooth from Florida (194008).

PENNSYLVANIA, UNIVERSITY OF, Philadelphia, Pa.: 482 plants from Pennsylvania and Maryland (191493, exchange).

PENSON, HUBERT, Washington, D. C.: 52 plants from Newfoundland (193935).

PEREZ, Dr. GILBERT S., Manila, P. I.: 2 land mollusks from Negros, Occidental, P. I. (193814).

PERLMUTTER, JACK, Washington, D. C.: Lithograph "Aurora Borealis" by donor (193496).

PERNOT, Mrs. N., Falls Church, Va. and MOSHER, STUART, Washington, D. C.: Brass money weights set; balance contained in small wooden box (194383).

PERRY, MRS. OLIVER H., Washington, D. C.: Magic lantern owned by donor's grandfather, Mr. Moon (194217).

PERRY, Dr. STUART H., Adrian, Mich.: Almost complete individual of the Rush County Indiana meteorite, weight $9\frac{1}{4}$ pounds (191412); Dayton, Montgomery County, Ohio meteorite weighing 58 pounds (191899); specimen of the Lafayette, Ind. meteorite weighing 637 grams (191900); specimen of the Loreto, Baja California meteorite weighing 208 pounds (192321); Keen Mountain meteorite from Buchanan County, Va. (194894).

PERSHING, FRANCIS WARREN. (See General John J. Pershing.)

PERSHING, Gen. JOHN J. (Through Francis Warren Pershing) Riding saddles, uniforms, flags, etc. owned by General Pershing (193332, bequest).

PERSONIUS, ROBERT, Minneapolis, Minn.: Approximately 583 land and fresh-water shells from drift of Little Missouri River, N. Dak. (192582).

PESIGAN, Dr. T. P., Manila, P. I.: (Through Mrs. T. P. Pesigan) Approximately 65 fresh-water mollusks from Sorsogon, Luzon (192309).

PETERDI, GABOR, Rowayton, Conn.: 37 prints for special exhibition during October 1951 (192180, loan).

PETERS, WEMPLE, DALY AND PRITCHARD. (See Le Roy Fryer.)

PETERSON, Dr. BORGE. (See Zoological Museum.)

PETERSON, MENDEL L., Washington, D. C.: 171 rating badges of the

WAVES, U. S. Navy, World War II (193225).

PETTIBONE, Dr. MARIAN, Washington, D. C.: Approximately 30 amphipods from Woods Hole, Mass. (192201).

PEYSER, HARRY W. (See Heirs of Edmund C. and Emeline A. Tarbell.)

PFITZER, DONALD W., Knoxville, Tenn.: 3 ants, types, from Tennessee (192944).

PHELPS, ASA GRAY, Hilton Village, Va.: Potsherds from Briarfield Site, Elizabeth City County and Warwick County line, Va., and Cashoke Site, Bertie County, N. C. (193086).

PHELPS, Mrs. GRACE, Van Lear, Ky.: 37 specimens of the seed fern *Trigonocarpus* and associated plants from the Pennsylvanian in vicinity of Van Lear (192153).

PHELPS, HON. PHELPS, Pago Pago, American Samoa: Oil painting of Samoan dwelling (fale), by Charles McPhee; *fue* and *to'oto'o*, emblems of Samoan orator and talking chief (194095).

PHILIP, Mrs. HOFFMAN, Santa Barbara, Calif.: Abyssinian craftsmanship objects in enamel and metal; religious cult paraphernalia; native weapons; bronze coins and bird figurine from site of the ancient city of Petra in the Hedjaz, all collected by the late Hon. Hoffman Philip (194782).

PHILIPPINES, UNIVERSITY OF THE, Quezon City, P. I.: 49 plants from the Philippines (192404); (through Mariano G. Yogore, Jr.) 9 slides of Philippine mosquitoes (192107); (through Dr. Leopoldo S. Clemente) 18 slides of cladoceran crustaceans from near Manila (193076).

PHLEGER, Dr. F. B., Jr., La Jolla, Calif.: 600 types slides of Recent Foraminifera from the Atlantic and Gulf of Mexico (192930).

PIERSON, Mr. and Mrs. ROBERT C., Jr., Clay, W. Va.: 130 specimens of the West Javanese puppet show, *wayang* (194783).

PINCHON, Rev. Pere, Fort de France, Martinique: Bird bone and bones of mammals from archeological site on Martinique (191427).

PINHEY, E. (See Coryndon Museum.)

PITNEY BOWES, INC., Stamford, Conn.: (Through Frederick Bowes, Jr.) Model original Pitney Bowes meter marking machine, 2 United Nations meter marking first day covers, photograph of marking and press release (193658).

PLETSCH, Dr. DON J., Washington, D. C.: 30 miscellaneous insects and approximately 35 crustacea from Japan (194046).

PLUMMER, EDNA, Pasadena, Calif.: Piece hand-netted lace; hand-netted lace baby bonnet; chemise with hand-netted lace trim (194413).

POJAN, Dr. José M., Caracas, Venezuela: 7 fresh-water crabs (191795).

POLONUS PHILATELIC SOCIETY, Chicago, Ill.: (Through Adam Kloskowski) Polonus Philatelic Society and Polpex cachets, seals, souvenirs, etc. (192662).

POMEROY, ROBERT L., Hopewell, N. J.: Shrew from Hopewell (192307).

POPULAR PHOTOGRAPHY, New York, N. Y.: (Through Carole Anne Fine) 108 prints from *Popular Photography* Traveling Salon exhibited January, 1952 (193164, loan).

PORKORNAY, Dr. V., Prague, Czechoslovakia: 41 Foraminifera and Ostracoda from Devonian of Czechoslovakia (194481, exchange).

POST, Dr. RICHARD L., Fargo, N. Dak.: 6 shrimps from Fargo (193593).

POST OFFICE DEPARTMENT, Washington, D. C.: 2,897 stamps issued in foreign countries and described in Universal Postal Union Bulletins, and 1 each of the following newly issued Canal Zone airmail stamps: 4-, 6-, 10-, 21-, 31-, and 80-cent (191532, 191749, 192675, 194400); 3 copies of each of the following 3-cent Commemorative Stamps: United Confederate Veterans, Nevada, Landing of Cadillac, Colorado Statehood, American Chemical Society, Battle of Brooklyn, Betsy Ross, 4-H Club, Baltimore and Ohio Railroad Company, and American Automobile Association (192299, 194135); (through Hon. Walter Myers) pouch lock in use in 1952 (193827).

PRATT, Dr. HARRY D., Chamblee, Ga.: 2,177 ichneumon flies from United States (194236).

PRATT, IVAN. (See Oregon State College).

PRAY, L. C., Pasadena, Calif.: 90 invertebrate fossils from Silurian, Devonian and Mississippian rocks, Sacramento Mountains, Alamogordo, N. Mex. (194214).

PRIDER, Prof. R. T. Nedlands, West Australia: 3 priderite-bearing rocks from the west Kimberley area, western Australia (193257).

PRIEST, Capt. CECIL D., Marandellas, Southern Rhodesia: Honey guide from Southern Rhodesia (191378).

PROCTOR, GEORGE R., Kingston, Jamaica: 3 plants from Jamaica (191386).

PROVENZA, D. VINCENT, Baltimore, Md.: Approximately 5 copepods (191802).

PUERTO RICO, UNIVERSITY OF, Mayaguez, P. R.: (Through Dr. N. T. Mattox) 7 land mollusks and 1 insect from Cerro Marahuaca, Venezuela (192190);

(through Dr. G. L. Warmke) 5 marine mollusks from Puerto Rico (192561); (through Dr. Irving Fox) a shrimp (192562).

PUFFER, ELTON L. (See American Petroleum Institute.)

PUGET SOUND, COLLEGE OF, Tacoma, Wash.: 10 phanerogams from Washington (191745).

PURCHON, Dr. R. DENISON, Singapore, S. S.: 12 clams from Singapore (193836).

PURDUE UNIVERSITY, Lafayette, Ind.: (Through Russell E. Mumford) 2 bats from Florida (191940, exchange).

QUEST, CHARLES, St. Louis, Mo.: 30 wood cuts and wood engravings for special exhibition during November 1951 (192412, loan).

QUIGLEY, Mrs. MARY M., Washington, D. C.: Marine mollusk and 42 insects from Acapulco, México (192186).

QUISUMBING, Dr. EDUARDO. (See National Museum, Manila, P. I.)

RACKLEY, RUFFIN, Knoxville, Tenn.: 3 specimens of a possible Holothurian from Middle Cambrian Hiwassee formation near Tellico, Tenn. (191739).

RADULPHUS COLLEGE, Curaçao, Netherlands West Indies: 52 plants from Curaçao (191872); 86 plants collected in Curaçao by Fr. M. Arnoldo (193296).

RAFFLES MUSEUM AND LIBRARY, Singapore, S. S.: (Through Dr. M. W. F. Tweedie) 75 marine and fresh-water mollusks from Malaysia (193060).

RAGEOT, ROGER, Washington, D. C.: 200 land shells from Virginia and Mineral County, W. Va. (193312).

RAINES, Mrs. H. TAYLOR, Fort Myers Beach, Fla.: 3 marine mollusks from Campeche Bay and Gulf of Mexico (191603, 192409).

RAMBO, B., Porto Alegre, Brazil: 100 plants from Brazil (192318).

RANDALL, FRED R., Rexburg, Idaho: 2 chalcedony specimens from north of Arco, Idaho (191304).

RANGER, GORDON A., Eastern Cape Province, South Africa: Scaly-throated honeyguide (194891).

RAPP, FLOYD A., Brandywine, Md.: 7 minerals from Japan (194792).

RASETTI, Dr. FRANCO, Baltimore, Md.: About 1,400 Middle Cambrian trilobites from British Columbia (194762).

RAT, Dr. P., Dijon, France: 2 slabs and 1 thin section containing topotypes of a foraminifer from the Cretaceous of Ecay (Navarre) (193490, exchange).

RAUP, OMER. (See Joel Shappirio.)

RAUSCH, Dr. ROBERT. (See Federal Security Agency, *Public Health Service*.)

REDMAN, C. FLOYD, St. Petersburg, Fla.: Fern from Florida (192697).

REED, FRED C., Remo, Va.: Ulca miniature camera (194602).

REHN, J. A. G. (See Academy of Natural Sciences of Philadelphia.)

REID, Miss. (See W. F. Hauptfleisch.)

REID, GEORGE K., Jr. (See University of Florida.)

REINHARD, Dr. H. J., College Station, Tex.: 20 flies (191702, exchange); fly from Texas (192940).

REMEY, CHARLES MASON. (See Mrs. C. Drage.)

RENBORG, BERTIL A., United Nations, N. Y.: First day cover of United Nations stamps (192845). (See also United Nations Postal Administration.)

REINEHART, WALTER L., Jr. (See Ludwig Caminita III.)

RHOADES, Dr. RENDELL, Leesburg, Ohio: 700 Ordovician and Silurian fossils from Ohio (191540).

RHODES, F. V., Santa Monica, Calif.: Telegraph crossarm complete with 2 insulators (191610).

RHODES UNIVERSITY, Grahamstown, South Africa: (Through William MacNae) 53 amphipods (193365, exchange).

RICHARDS, HORACE G., Philadelphia, Pa.: 4 sponges from Bowers, Del. (192204).

RIETSCHEL, ERNEST, Shelton, Conn.: 119 used stamps, 3 commemorative stamps, and 3 adhesives, all from Eastern Zone of Germany (192421, 192659, 193463, 194608).

RIJCKSMUSEUM VAN NATUURLIJKE HISTORIE, Leiden, Netherlands: (Through Dr. L. B. Holthuis) 10 crayfishes from New Guinea, and 23 shrimps from Surinam (190851, exchange).

RINDGE, Dr. FREDERICK H. (See American Museum of Natural History.)

RIPLEY, Dr. S. DILLON, New Haven, Conn.: 16 birds from Assam (194548). (See also Yale University, *Peabody Museum of Natural History*.)

ROBERTS, Dr. FRANK H. H., Jr. (See Smithsonian Institution, *Bureau of American Ethnology, River Basin Surveys*.)

ROBERTSON, Dr. JAMES D., Zanzibar, British East Africa: Approximately 200 marine and land mollusks from Zanzibar (192430).

ROBERTSON, Mrs. WILLIAM S., Grants Pass, Oreg.: 3 chrome ores from Early Morning Mine, Coalings, Calif. (193256).

ROBINSON, C. H., Puyallup, Wash.: 4 clay concretions from Washington (193979).

ROBINSON, GEORGE, Falls Church, Va.: 37 Conchostracans from Falls Church (192054).

ROCA-GARCIA, Mrs. MANUEL, Bogotá, Colombia: 299 plants collected in Colombia (191390, 192317).

ROEBLING FUND, Smithsonian Institution: 4 crystallized turquoise from

Lynch, Va. (191501); roeblingite from Franklin, N. J. and tourmaline from Fukushima Prefecture, Japan (191502); 2 uraninites, allanite, and thucholite from various localities in Canada (191503); 4 green beryl specimens from Theophilo Otomi, Minas Gerais, Brazil (192098); 2 topaz crystals from Upper Glen Cove, Pikes Peak and a phenakite crystal from Mt. Antero, Colo. (192323); 2 marcasites from Mangum Mine, Hockerville, Okla., and 1 chalcopryite and galena on sphalerite from West Side Mine, Treece, Kans. (192492); uraninite, var. cleveite with ytrogummite from Norway (192670); 2 crystals of spodumene (kunzite) and 1 cut stone of kunzite from Pala, Calif., and crystal of spodumene from Minas Gerais, Brazil (192708); uraninite from Nunn Lake, near Lac La Ronge, Saskatchewan, Canada and tyuyamunite from Allamoose, Tex. (192974); shattuckite from Ajo, Ariz. (193218); spodumene crystal from Minas Gerais, Brazil (193220); purple sapphire from Ceylon, weight 12.25 carats (193255); 8 minerals from Austria and other localities (193454); carnotite from Craven Canyon, Fall River County, S. Dak. (193623); 3 vanadinite specimens from San Carlos Mine, Chihuahua, México (193624); 5 brookites from Magnet Cove, Ark. (193945); 13 garnets on diopside from San Benito County, Calif. (193946); 4 witherites and 1 strontianite from Hardin Mine, Rosiclare, Ill. (194199); jadeite from Ochie, Susa, Italy (194298). (See also Dr. J. M. Duhovnik.)

ROGERS, Dr. DONALD P. (See New York Botanical Garden.)

ROGERS, JOHN C., Alexandria, Va.: 33 prints and drawings for special exhibition during September 1951 (191901, loan).

ROGERS, JULIA ELLEN, Long Beach, Calif.: 1 sinistral specimen of a marine mollusk from Tea Table Key, Fla. (192111).

ROIG, Dr. MARIO SANCHEZ, Havana, Cuba: 65 land mollusks from Cuba, including paratypes (193360).

ROMANO, Mrs. JOHN, Rochester, N. Y.: Gold net evening dress; gold lamé and blue velvet evening coat, worn in 1928 (192710).

ROSENGURTT, Dr. BERNARDO, Florida, Uruguay: 79 plants from Uruguay (191892).

ROSS, Dr. E. S. (See California Academy of Sciences.)

ROSS, Mrs. HELEN M., Millburn, N. J.: 21 United States and United Nations first day covers; 3 United Nations stamps, cancelled and removed from

outer envelope (192010, 192413, 192781, 193078).

ROSS, Mr. and Mrs. WILLIAM, New York, N. Y.: 13 United States and United Nations first day covers (191768, 192595, 194638).

ROSSO, SAMUEL W., University, La.: 3 marine mollusks from Louisiana (191964).

ROTH, LOUIS M. (See Department of Defense, *Department of the Army*, Office of the Quartermaster General.)

ROTHBLUM, MORRIS C., Camden, N. J.: Souvenir program for first day sale of U. S. Betsy Ross stamp; stamp and first day cancellation (193223); cacheted cover and seal, Camden, N. J., 1952 show (193953).

ROWLEY, ELMER, Glens Falls, N. Y.: 2 large idocrase crystals and 1 idocrase pseudomorph after garnet from Olmsteadville, N. Y.; hyalite specimen from Overlook on the Sacandaga Reservoir, Saratoga County, N. Y. (192095, exchange).

ROY, Dr. SHARAT. (See Chicago Natural History Museum.)

ROYAL FOREST DEPARTMENT, Bangkok, Siam: 93 plants from Siam (190695, 194474, exchange).

ROYAL ONTARIO MUSEUM OF GEOLOGY AND PETROLOGY, Toronto, Canada: Treavorite from Bon Accord, near Sheba Siding, Transvaal, South Africa (194860, exchange).

RUBEL, ABE, JR., New York, N. Y.: 3-cent dull rose-red United States stamp, probably of 1854 printing, on envelope with red oval Smithsonian Institution rubber stamp (191690).

RUCKES, Dr. HERBERT, New York, N. Y.: 4 stink bug paratypes from Bahamas (193833, exchange).

RUEFF, JOSE, New York, N. Y.: Tie with reproductions of U. S. and foreign postage stamps (194666).

RUNYON, ROBERT, Brownsville, Tex.: 29 Texan plants (192695).

RUPP, ROBERT S., Orono, Maine: 30 flies from Maine (194341).

RUSSELL, R. D. (See Lena L. Jones.)

RYCKMAN, RAYMOND E., Loma Linda, Calif.: 1 snake and 11 lizards from Orlando, Fla. (193879). (See also School of Tropical and Preventive Medicine.)

RYUKYU CIVIL ADMINISTRATION TEAM, San Francisco, Calif.: (Through Leonard H. Thoman) 2 first day issue envelopes bearing pairs of the Saion Forestry commemorative and Ryukyu University stamps (191775).

SACHS, W. P., Collingswood, N. J.: White damask linen tablecloth with design depicting "The Last Supper" (192094).

SAILER, Dr. REESE I. (See U. S. Department of Agriculture, *Bureau of Entomology and Plant Quarantine*.)

SALTER, Dr. WILLIAM, Washington, D. C.: Plant from Maryland (194350).

SÁNCHEZ MAJORADA, HERNANDO, México, D. F.: 94 Mexican ferns (191545).

SANDERS, OTTYS, Dallas, Texas: 7 toads, types, from Elkhart, Tex. (193797).

SANDERSON, FRANK, Washington, D. C.: Black-throated blue warbler (192398); Maryland yellow-throat warbler (194658).

SANDERSON, GLEN C., Marion, Iowa: White-footed mouse from Iowa (191324).

SANDOZ, Mrs. MILDRED, Solomons Island, Md.: Crab collected in Wye River, Md. (191726).

SANGER, I. J., Washington, D. C.: 37 prints by donor for exhibition during April 1952 (194045, loan); wood engraving, "Northeastern," by donor (194603).

SARGENT, F. H., Falls Church, Va.: Plant from Wyoming (192290).

SAVORY, EDWARD, Washington, D. C.: A cardinal (193932).

SAWICKI, JAMES A., Washington, D. C.: 2 pieces of military currency (191634).

SAXTON, V. F., Mt. Arab, N. Y.: 5 marine shells from New Caledonia and Queensland, Australia (192685).

SBARBARO, CAMILLO, Spotorno, Savona, Italy: 30 plants (192399, exchange); 42 Italian lichens (194098, exchange).

SCALAMANDRÉ, FRANCO, New York, N. Y.: 7 blue silk brocade samples and 17 yards blue gimp for reupholstering the Alexander Hamilton armchairs (194562).

SCANLON, Lt. JOHN E. (See Department of Defense, *Department of the Army*.)

SCATTERGOOD, Dr. LESLIE, V. (See U. S. Department of the Interior, *Fish and Wildlife Service*.)

SCHELTEMA, R. S. (See Chesapeake Biological Laboratory.)

SCHENK, EDWARD T., Boulder City, Nev.: 3 kaersutite specimens from vicinity of Boulder Dam, Ariz. (194853).

SCHIEFER, H. V., Cleveland, Ohio: 6 jasper cabochons from Flint Ridge, Ohio (191684).

SCHILLER, Dr. EVERETT L. (See Federal Security Agency, *Public Health Service*.)

SCHLECHT, W. G., Washington, D. C.: 4 marine mollusks from Pawley's Island, S. C. (194423).

SCHLESINGER, B. E., South Boston, Mass.: 70 pelecypods and gastropods collected at La Belle, Fla., in Pliocene,

Caloosahatchee formation (191499, exchange).

SCHLINGER, EVERT I., Davis, Calif.: 1 fly (193762).

SCHMIDT, Dr. ERICH, Bonn, Germany: 7 dragonflies from Madagascar (193529, exchange).

SCHMITZ, Rev. HERMANN, Bad Godesberg, Germany: 24 flies from Europe (190760, 194424, exchange).

SCHNEIDER, Mrs. HELEN KAHAN, East Cleveland, Ohio: Decorative accessories of Jewish ceremonial robe (*kissel*): Embroidered cap, belt, collar and cuffs of woolen yarns appliqued with silver strips, collar of silver discs, long in possession of donor's family in the Carpathian section, former Austro-Hungarian Empire (192962).

SCHOOL OF TROPICAL AND PREVENTIVE MEDICINE, Loma Linda, Calif.: (Through Raymond E. Ryckman) Ground squirrel from Orange County, Calif. (193634).

SCHOERS, Dr. W., Salzburg, Austria: 321 Foraminifera from Tertiary of Austria (194854, exchange).

SCHROEDER, WILLIAM C. (See Harvard University, *Museum of Comparative Zoology*, and Dr. Henry B. Bigelow.)

SCHULDT, CHARLES, San Antonio, Tex.: Radio receiving set, Crosley 50 (191494).

SCHUTZ, AL, Washington, D. C.: 2 models of Civil War locomotive "General" (192968, loan).

SCHWAB, CHARLES, Washington, D. C.: Brown thrasher (194594).

SCHWALBE, PAUL W. (See West Chester State Teachers College.)

SCHWARZ, Dr. ERNEST, Bethesda, Md.: 20 marine snails from North Carolina (194569).

SCHWENGEL, Dr. JEANNE S., Scarsdale, N. Y.: 5 marine mollusks from Guam, México, and Bali (192502, 193372).

SCOLNIK, Dr. ROSA, Córdoba, Argentina: 111 Andean plants (191385); 305 plants collected in South America (191539, 191673).

SCOTT, ARTHUR M., New Orleans, La.: 10 diatom samples from South America and Australia (194756).

SCOTT, Dr. DONALD C. (See University of Georgia.)

SCOTT, GLENN R., Lakewood, Colo.: Tooth of fossil shark from the Permian Middleburg limestone, Pottawatomie County, Kans. (193918).

SCOTT PUBLICATIONS, INC., New York, N. Y.: (Through Gordon Harmer) Set of Scott specialty albums (194622).

SCUDDER, Congressman HUBERT B. (See W. R. Hayter.)

SEALANDER, DR. JOHN A. (See University of Arkansas.)

SECRETARIA DA AGRICULTURA, Pôrto Alegre, Brazil.—*Indústria e Comércio Serviço de Botânica*: 8 grasses from Brazil (191280). *Departamento de Zoologia*: (Through Dr. Lindolpho R. Guimarães) 19 lice from Brazil (192976).

SEDGWICK MUSEUM, Cambridge, England: 140 Cretaceous brachiopods from England (193099, exchange).

SÉGUY, Dr. E. (See Museum National d'Histoire Naturelle.)

SELBY, Mrs. JOHN A., Bethesda, Md.: Copperhead snake from Watts Branch Culvert, Md., collected by Frank Taylor (194721).

SELCHMANN, Mrs. AUGUST E., Frederick, Md.: 19 glass fragments from site of the New Bremen Glass Works (Amelung Factory), Frederick (192088).

SENGER, CLYDE M., and NEILAND, KENNETH A., Portland, Oreg.: 5 mammals from Oregon (193987).

SENNOTT, JOHN N., Fort Myers Beach, Fla.: 14 marine mollusks from British Honduras (193503).

SENNOTT, Mr. and Mrs. JOHN N., Fort Myers Beach, Fla.: 45 marine mollusks from Gulf of Mexico, including types of 4 new species (192023); 2 marine mollusks from Matade, Belgium Congo (192794).

SETZLER, FRANK M., Washington, D. C.: Student tobacco pipe with porcelain bowl, originally presented in 1848 by G. H. Reichardt to donor's maternal grandparent, Peter Jean Blaess of Schwetzingen, near Heidelberg, Baden; wooden tobacco pipe with carvings of deer figures executed in styles of Black Forest craftsmen (191756).

SEVERSMITH, HERBERT F., Washington, D. C.: 24 fishes from Maryland collected by Sumner O. Burhoe, F. Heckman, W. E. Maloney, and donor (193621).

SEYMOUR, GEORGE W., Keuka Park, N. Y.: 18 plants (193517).

SHADLE, Dr. A. R., Buffalo, N. Y.: 580 beetles (192300).

SHAPPIRIO, JOEL, Washington, D. C., and RAUP, OMER, Chevy Chase, Md.: 2 stilbite specimens from Kibblehouse Quarry, Perkiomenville, Montgomery Co., Pa. (191764).

SHAUB, Prof. BENJAMIN M., Northampton, Mass.: 2 uraninite specimens and its alteration products, in zircon, from Ruggles Mine, Grafton, N. H. (194913).

SHAW, HARRY B. (See National Photographic Society.)

SHEWELL, GUY E., Ottawa, Ontario:

38 specimens and 3 vials of blackflies from Canada (193352).

SHIGETA, HARRY K., Chicago, Ill.: 50 pictorial prints for special exhibition during October 1951 (192003, loan); 12 prints: "Vanity;" "March Blizzard;" "Late Boake Carter;" "Richard Menz as Abraham Lincoln;" "Time, Space, and Forms;" "George Arliss in 'Old English';" "Carl Sandburg;" "Pearls and Mermaids;" "Fantasy;" "Low Tide;" "Cheese" (color print); and untitled color print of steak platter (192657).

SHIKAMA, Dr. TOKIO, Yokohama, Japan: 23 Permian mollusks from Japan (194379, exchange).

SHULL, Lt. Col. LEWIS F., Fort Ord, Calif.: 13 blocks of four North Korean postage stamps (194889).

SIDDALL, Mrs. MARGARET J., Washington, D. C.: Skull of baboon (192665).

SIEGEL, ROBERT A., New York, N. Y.: 11 "Higienicos" cigarette cards with reproductions of postage stamps in color (192848).

SIGAL, Dr. J., Rueil-Malmaison, France: 6 Foraminifera from Cretaceous of Algeria and Miocene of France (190583, exchange).

SIMMONS, EDWARD M., Avery Island, La.: Approximately 150 land and freshwater mollusks from Oglesby, Tex. (194567).

SIMMONS, FRANK E., Oglesby, Tex.: Pelecypod from west Texas (191787).

SIMPSON, CARL, Miami, Fla.: Silk replica of the "Freedom Flag" (192144).

SINCLAIR, G. WINSTON, Ann Arbor, Mich.: 18 brachiopods from Ordovician of Canada (194295).

SINGLETON, ANN. (See Mrs. Clara S. Despecher.)

SKINNER AND SONS, WILLIAM, New York, N. Y.: 7 wool-back fabric cuts, 5 articles manufactured from them, and photographic enlargement of this patented weaving process (190847).

SKOTZKE, SIGMUND C., Milwaukee, Wis.: 8 first day covers, Roosevelt memorial cover, Philippine Victory cover, and 14 coins (194252).

SLATER, Dr. JAMES A., Ames, Iowa; 22 bugs from United States and México (191699); holotype of leafbug from United States (193351, deposit); 55 South African bugs (194224, exchange).

SLIPP, JOHN W. (See University of Washington.)

SMITH, ARTHUR C., Ithaca, N. Y.: 16 weevils from México (192013).

SMITH, BILL, Grapevine, Tex.: Fossil ammonite from Texas (188458).

SMITH, Mrs. ERNEST F., Los Angeles, Calif.: Brown crepe dress, cape and handbag, ca. 1920, which belonged to Lillian Blachly, Helena, Mont. (193767).

SMITH, FOSTER D., Jr., Caracas, Venezuela: 15 skins and 3 sets of bird eggs from northeastern Venezuela (191473).

SMITH, KENNETH L., Brooklyn, N. Y.: 40 Cretaceous mollusks from western United States (192835).

SMITH, DR. MARION E., Amherst, Mass.: (Through Dr. Alan Stone) 19 type mosquitoes from North America (194416).

SMITH, MAXWELL, Windermere, Fla.: Gastropod from Belle Glade, Fla. (193745).

SMITHSON, JOHN and JOHN, Jr., Mineola, N. Y.: Silver tankard, silver basting spoon, wine cup, 2 luster teapots and portrait of woman on wood panel (189508).

SMITHSONIAN INSTITUTION, Washington, D. C.—87 envelopes addressed to Smithsonian Institution, with various forms of cancellation and free frank (192005, deposit); 146 stamped consignment acknowledgment cards, 1913 period, from various countries (192006, deposit); 8 miscellaneous philatelic items (193062); portrait photograph by Frederick Gutekunst, Philadelphia, Pa. (193101, deposit); 3 oil paintings of American Mail Steamships, "City of Rio de Janeiro" ("City of Para"), "City of Sydney," "City of Tokio" (193224, deposit); lithographs burning of U. S. Frigate *Missouri* and hanging of mutineers at sea; oil painting of U. S. S. *Alert* and *Huron* (193226, deposit); 9 registry receipt cards, 1890's; a Grant 1-cent postcard, 1893 (194612). (See also following funds: Abbott, Baird, Brown, Canfield, Chamberlain, Dahlgreen, Hillyer, Roebing, Springer, Walcott.) *Bureau of American Ethnology*: Mold and finished face mask of Frances Densmore, made by Mička in 1912 (191398); cornhusk ceremonial mask, Grand River Iroquois, Ontario, Canada, probably collected by J. N. B. Hewitt (192829); (through Dr. Matthew W. Stirling) ceremonial and historical wampum of the Iroquois, collected in 1928-29 by J. N. B. Hewitt at the Six Nations Reserve, Ontario, Canada; also a shell necklace used in the Tutelo adoption ceremony, collected in 1941 by W. N. Fenton (192830). *Bureau of American Ethnology, River Basin Surveys*: Skeletal and archeological material from sites Me44 and Ha6, Buggs Island Reservoir, Roanoke River, near Clarksville, Va. (193461); (through Dr. F. H. H. Roberts, Jr.) vertebrate material collected by Dr. Theodore E. White, May, 1951, Garza-Little Elm Dam, north fork of Trinity River, Denton County, Texas (191031); fossil vertebrate material from Oligo-

cene and Miocene deposits in the Canyon Ferry Reservoir area, Montana, collected by Dr. Theodore E. White, July, 1951 (191587); 5 fossil vertebrates including mammals, reptiles, and fishes, from Garrison Reservoir area near Williston, N. Dak., collected by Dr. Theodore E. White, August, 1951 (192062); 1 Mosasaur skeleton and shark teeth from Pierre formation, upper Cretaceous in Oahe Reservoir area near Pierre, S. Dak., collected by Dr. Theodore E. White, August, 1951 (192063); tympanic bullae of kangaroo rat from near Pierre, S. Dak. (193460); (through R. L. Stephenson) approximately 120 land mollusks from Texas (193835). *National Museum, Collected by members of the staff*: 138 marine invertebrates, echinoderms, 59 mollusks, 2 fishes from Florida, collected by Frederick M. Bayer (193273); 32 fishes from Alaska collected by Arthur L. Bowsher (191365); approximately 5,675 insects and some mollusks from Turrialba, Costa Rica collected by O. L. Cartwright, May and June 1951 (192012); 3,500 miscellaneous insects, 14 millipeds, 1 scorpion and 64 mollusks collected by O. L. Cartwright in Texas (193227); 2 analyzed basalt specimens from Nuevo Juatito Vent, foot of Copatzin Hill, Parícutin, México, collected by Dr. David H. Dunkle (194690); 125 pieces of jade from Guatemala, collected by Dr. W. F. Foshag (185162); 1,367 plants from southern United States and Cuba collected by E. P. Killip (188525); approximately 3,000 marine mollusks, 12 corals, marine invertebrates, and 50 echinoderms from near Sarasota, Fla., collected by Dr. J. Brookes Knight (193846); 15,037 fishes, 247 crayfishes, 2 shrimps, amphibians and reptiles, 194 fresh-water mollusks, and 18 insects from southeastern United States collected by Dr. Ernest A. Lachner and William T. Leapley (194449); 46 marine mollusks from near Monrovia, Liberia collected by Dr. George C. Miller (194929); 305 plants from Minnesota and California collected by C. V. Morton (192288); 1,387 miscellaneous marine invertebrates, 11 brachiopods, 7 plants, 1 fish, 500 mollusks from off Labrador collected by David C. Nutt (191183); 141 mammals from the Arctic Slope of Alaska collected by Dr. Henry W. Setzer (in collaboration with the Arctic Research Laboratory and Office of Naval Research) (191039); 2,000 plants from Honduras collected by Jason R. Swallen (194038); approximately 6,356 plants, 3 caterpillars and wood samples collected in the Ryukyu Islands by E. H.

Walker and associates under the auspices of the Scientific Investigation of Ryukyu Islands Program of the Pacific Science Board, National Academy of Sciences (192656). *National Museum, Obtained by purchase*: 3,000 photographs of botanical type specimens (188067); material for lithographic exhibit: Sketch, tracing, stones, proofs, and finished lithograph (191025); 1,250 plants collected in Iran by Dr. Karl H. Rechinger (192925); Schwarz stereograph, with attachments (193381). *National Museum, made in the Museum*: Casts of 3 archeological objects from Venezuela (191883); cranial capacity apparatus designed in 1931 by M. S. Goldstein (192166); 8 Blackfoot Indian face molds and life masks (192491); busts of 5 Indians and 1 Eskimo (193382); molds, face mask and bust of 1 Comanche and 2 Omaha Indians (193383); 546 photographs of plants and 302 frames of microfilm (194851). *National Zoological Park*: 55 birds and 2 eggs (191470, 191884, 192552, 194570, 194689); 37 mammals (194924).

SMYTH, DR. J. ADGER, Tallahassee, Fla.: 2 penaeid shrimps (191443). (See also Florida State University.)

SMYTH, THOMAS, JR., Baltimore, Md.: 26 fresh-water Medusae collected in Padonia, Md. (192051).

SNELLING, ROBERT, Turlock, Calif.: 51 bees and wasps from United States (191349, exchange).

SOCIETY OF PHILATELIC AMERICANS, Cincinnati, Ohio: (Through Mrs. Helen H. Longenotti) China plate, provided as an award at the 1951 convention and exhibition Society of Philatelic Americans (193110).

SOLIMEO, MARIETTA. (See Dr. Lowrain E. McCrea).

SOUKUP, DR. J., Lima, Perú: 61 plants collected in Perú (191405).

SOUTH AFRICA, UNION OF, *Department of Agriculture*, Pretoria: 121 South African grasses (192775); (through Dr. H. K. Munro) 150 fruit flies from Africa (194302).

SOUTH AFRICAN MUSEUM, Cape Town, South Africa: (Through Dr. Keppel H. Barnard) 6 gorgonians (193667).

SOUTH-MOLUCCAS, REPUBLIC OF THE, New York, N. Y.: (Through Karel J. V. Nikiululuw) 2 sets of 6 stamps jointly marking first anniversary of South-Moluccan postal service and 75th Anniversary of Universal Postal Union (193108); 21 United Nations stamps and 9 Fifth Anniversary, Liberation of the Pacific issue (193514).

SOUTHERN CALIFORNIA, UNIVERSITY OF, *Allan Hancock Foundation*, Los Angeles, Calif.: 30 diatoms from Pacific

Coast, North America (194346); (through Dr. E. Yale Dawson) 347 marine algae (194410, exchange).

SOUTHERN ILLINOIS UNIVERSITY, Carbondale, Ill.: Plant collected in Illinois (192400).

SOUTHERN METHODIST UNIVERSITY, Dallas, Tex.: (Through Eula Whitehouse) 313 mosses and algae from Texas and California (193616, exchange).

SOUTHWORTH, CHARLES, Thedford, Ontario: Silurian pelecypod from Ontario (192295).

SOYKA, DR. WALTER, Stubaital, Tyrol, Austria: 5 slides of chalcid flies including one cotype from Europe (192017).

SPANGLER, PAUL J., Lawrence, Kans.: 30 amphipods from Pennsylvania (193986).

SPERRY, JOHN L., Riverside, Calif.: 108 insects from Perú and western North America (193358); 287 microlepidoptera and 4 geometrid moths from Pacific Coast of North America and Brazil (194303); 678 moths from western North America, South America, and India (194883).

SPRINGER FUND, Smithsonian Institution: 200 Upper Paleozoic crinoids from Oklahoma, including 23 types (192973); 28 crinoids and 2 cystids from Ordovician, Mississippian and Pennsylvanian rocks of Oklahoma (194880).

SPRINGER, STEWART. (See U. S. Department of the Interior, *Fish and Wildlife Service*.)

SPRINGER, VICTOR G., San Francisco, Calif.: 157 fishes from Korea (192463, 194761).

STABLER, MRS. CYNTHIA ANN, Ashton, Md.: Roper repeating centerfire shotgun, and rifled barrel and receiver housing for same (191770, loan); 10 seal impressions in paper, ink sketch made by Edward Stabler, and copy of his advertisement, 1837 (192007).

STACY, DR. M. C., Pittsburgh, Pa.: 170 Mississippian brachiopods from Nova Scotia (194763).

STALLINGS, DON B., Caldwell, Kans.: 4 butterfly paratypes from Kansas and New Mexico (193356).

STANFORD UNIVERSITY, Stanford, Calif.: 9 Alaskan lichens (191371); 32 plants collected in California by A. M. Vollmer and L. Beane (193488, exchange); (through John C. Briggs) 4 paratypes of gobiesocid fishes (191897, exchange); (through Dr. G. S. Myers and Dr. J. Böhlke) 3 paratypes of South American fishes (192115, exchange); (through Dr. William C. Steere) 1 moss (192770, exchange).

STANLEY GIBBONS, INC., New York, N. Y.: Cigarette ash tray with reproduction of \$1.00 Trans-Mississippi stamp (193112).

STANNARD, Dr. LEWIS J., Urbana, Ill.: 10 thrips from United States and México (194565); 1 thrip from Illinois (194667).

STARKEY, J. ALBERT, Vineland, N. J.: 10 caprellid amphipods (192205); 2 crayfishes and 3 amphipods from New Jersey (193269, 194205).

STARLING, Mrs. GUY W., and HUGHES, Mrs. CARROLL W., Arlington, Va.: Player-piano music rolls and perforator (194656).

STATE, U. S. DEPARTMENT OF, Washington, D. C.—A skipper-cover die, silver skipper enclosed in a book-shaped box, and wax impression of Great Seal of the United States, 1869 (192008). (See also Alexander Mylonas.) *Institute of Inter-American Affairs*: 75 plants collected in Perú by Edwin Anderson (194617).

STAUFFER, Dr. CLINTON, Pasadena, Calif.: 5 Devonian brachiopods, Columbus limestone, White House, Ohio (194105).

STAUFFER, GEORGE P. (See Charles F. Young.)

STEARNS, J. L., Washington, D. C.: 25 woods of Indo-China (194101).

STEARNS, RICHARD E. (See Natural History Society of Maryland.)

STEELE, PAUL H., Sacramento, Calif.: Mollusk from Easter Island (192189, exchange); mollusk from western Australia (192510).

STEERE, Dr. WILLIAM. (See Stanford University.)

STEHLIK, Dr. JAROSLAV L., Brno, Czechoslovakia: 573 bugs from Europe (193723, exchange).

STEIN, HILDA A., Carbondale, Ill.: 3 dusky salamanders from Olmstead, Ill (192462).

STELLENBASCH, UNIVERSITY OF, Stellenbosch, South Africa: (Through C. J. Joubert) 12 weevils and 86 mealy bugs from Africa (193174).

STEPHEN AUSTIN STATE COLLEGE, Nacogdoches, Tex.: 72 grasses from Texas (191966, 193207).

STEPHENSON, Mrs. MARY R., Wilson, N. C.: A plant (183306).

STEPHENSON, ROBERT L. (See Smithsonian Institution, *Bureau of American Ethnology, River Basin Surveys*.)

STEVENS, Dr. J. T., Marietta, Okla.: 100 Silurian, Devonian and Pennsylvanian brachiopods from Oklahoma (191498).

STEWART, Dr. T. DALE, Washington, D. C.: 263 specimens, archeological surface collections, made by donor and others in Virginia and Maryland (193380).

STEYSKAL, GEORGE, Grosse Ile, Mich.: 31 flies, including 5 paratypes, from

Michigan and Australia (192961, 194945).

STIRLING, Dr. MATTHEW W. (See Smithsonian Institution, *Bureau of American Ethnology*.)

STOCK, Dr. J. H., Amsterdam, Holland: Approximately 105 copepods (191263, exchange).

STODDARD, HERBERT L., Thomasville, Ga.: 2 wild turkeys from Georgia (191469).

STONE, Dr. ALAN. (See Dr. Marion E. Smith.)

STONE, Lt. TED, New York, N. Y.: 1 cover mailed from U. S. S. *Oregon* 1899 (194664).

STOPP, Dr. KLAUS, Mainz, Germany: 13 grasses from Africa (193208).

STRATTON, RAY F. (See B. F. Goodrich Company.)

STRAUB, PAUL A., Summit, N. J.: 2 gold coins and a silver coin (191396); 1 silver six-taler piece, Brunswick, New Luneburg Line, 1654 (194299).

STRELAK, JOSEPH S., Downey, Ill.: July 17, 1951, Pentagon meter marking, denoting new style, and imprinted reproduction of Washington meter mark of trial period 1934-38 (191766); 20 postal cards (193069).

STRICKLAND, Capt. LESTER L. (See Department of Defense, *Department of the Air Force*.)

STRIMPLE, HARRELL, Bartlesville, Okla.: 101 Mississippian brachiopods from Lake Valley, N. Mex. (194201).

STROHECKER, H. F., Coral Gables, Fla.: 4 moths, 29 beetles, and 6 microlepidoptera from Florida and Cuba (192026, 193603).

STRUNZ, Prof. H., Regensburg, Germany: Mineral from Hagendorf-Nord near Pleystein, Oberpfalz, Germany (193951).

STUPKA, ARTHUR. (See U. S. Department of the Interior, *National Park Service*.)

STURTEVANT, Dr. A. H., Pasadena, Calif.: 5 flies (193955).

SUMMERS, FRANK, DAVIS, Calif.: 3 mite paratypes from California (193310).

SUPINGER, Mrs. W. J., Columbia, Miss.: Mud snake from Columbia (191593).

SUSSEX ARCHAEOLOGICAL ASSOCIATION, Lewes, Del.: (Through Catharine Maull) Indian skull and skeleton from Russell site, near Lewes (191467); (through James Parsons) Indian skeleton from Derrickson farm, Sussex County (194367).

SUTCLIFFE, Dr. W. H., Jr. (See Bermuda Biological Station.)

SUTTKUS, ROYAL D., New Orleans, La.: (Through Dr. Isaac Ginsburg) 200

fishes from Gulf of Mexico off Clearwater, Fla., collected by donor (194556).

SWANSON, Dr. LEONARD E., Gainesville, Fla.: 103 helminths from Florida (186660).

SWEDISH MUSEUM OF NATURAL HISTORY, Stockholm, Sweden: (Through Dr. Tor Ørvig) 15 Silurian brachiopods from Sweden (193098, exchange).

SWEENEY, Mrs. EDWARD C., Washington, D. C.: 39 plants from Africa (193736).

SYDNEY, UNIVERSITY OF, Sydney, Australia: (Through Dr. David J. Lee) 8 slides of biting midges from Australia (193115).

TAFT, F. W., East Jaffrey, N. H.: 5 fragments of green glass excavated by donor from site of the Temple Glassworks, New Hampshire (193571).

TARBELL, EDMUND C. and EMELINE A., HERS OF: (Through Harry W. Peyser) 12 medals awarded to Edmund C. Tarbell for excellence as an artist (191416).

TASMANIA, UNIVERSITY OF, Hobart, Tasmania: 17 Tasmanian lichens (191885).

TAYLOR, EMILY V., Poughkeepsie, N. Y.: (Through Charles J. Corbally) Mahogany Chippendale highboy in the Philadelphia manner (191204, bequest).

TAYLOR, Dr. WILLIAM R., Ann Arbor, Mich.: Isopod, hermit crab, 2 crabs collected in the Aleutians by P. T. Bank, 1945 (192912).

TEBBLE, NORMAN. (See British Government, *British Museum (Natural History)*.)

TEED, MERLIN F. (See Maximum Card Society of America.)

TELLER, Dr. L. W. (See Department of Defense, *Department of the Navy, National Navy Medical Center*.)

TEN DAM, A., Ankara, Turkey: 58 Foraminifera from Lower Cretaceous of Algeria (193493).

TERRY, Mrs. M. E., Palo Alto, Calif.: 200 land and fresh-water mollusks from Uganda, East Africa (193172).

TESKEY, Mrs. MARGARET, Buffalo, N. Y.: 75 fresh-water mollusks from New York and Ontario (191695); 10 fresh-water snails from New Zealand and Ohio (191907, exchange).

TEXAS, UNIVERSITY OF, Austin, Tex.: (Through Henry Hildebrand) 12 crabs (191131); (through Dr. Clark Hubbs) 83 fishes from southwestern United States collected by donor (193942).

TEXAS AGRICULTURAL AND MECHANICAL COLLEGE, College Station, Tex.: 1 grass (194473). *Research Foundation*: (through Dr. Sewell H. Hopkins) 40 brackish water mollusks from Neches River, Texas (193232).

TEXAS GAME, FISH AND OYSTER COMMISSION, Rockport, Tex.: (Through J. L. Baughman) 31 fishes and 1 squid from Gulf of Mexico (191651); 4 fishes (191677); 1 Scyllarid (192367); 7 shrimps from bayou near Hoskin's Mound, southeast of Angleton, Tex. (192691).

TEXAS STATE DEPARTMENT OF HEALTH, Austin, Tex.: (Through Dr. Richard B. Eads) 2 mites from Texas (193752).

THOMAN, LEONARD H., New Orleans, La.: 18 postage stamps of the Ryukyu Islands (191769). (See also Ryukyu Civil Administration Team.)

THOMAS, CORA, Washington, D. C.: (Through J. M. Allen) Tapa, acquired in 1897 from maker on Oahu, T. H. (192165).

THORNE, FRED, El Cajon, Calif.: 2 butterflies from Hualpi Mountains, south of Kingman, Ariz. (192018).

THURMAN, Lt. Comdr. and Mrs. DEED C., Jr., Chiangmai, Thailand: 11 reptiles and amphibians and 2 centipedes from Chiangmai collected by donors (194359). (See also Mutual Security Agency.)

TIBBETTS, TED, Logan, Utah: 12 land and fresh-water mollusks from Utah (191798); 6 land mollusks from Camp Lejeune, N. C. (194799).

TINDALE, B., Victoria, Australia: 3 samples of diatoms (191228).

TINKER, SPENCER. (See Waikiki Aquarium.)

TIPTON, Lt. VERNON J., Washington, D. C.: 100 slides, holotype and allotype, of fleas from western United States (194898).

TOKYO, UNIVERSITY OF, Tokyo, Japan: 2 plants, photographs of *Ardisia* (192651, exchange); (through Dr. Takayasu Uchio) about 1,000 Foraminifera, 52 species including paratypes, from Tertiary and Quaternary of Japan (193670, exchange).

TOKYO SCIENCE MUSEUM, Tokyo, Japan: 200 Japanese plants (191893, exchange).

TOLNAI, Dr. FERENC, Budapest, Hungary: Approximately 300 land and fresh-water mollusks from Hungary (192061, exchange).

TOPPING, E. W., Akron, Ohio: Models of Ferguson tractor, disc-plow for tractor, New Idea mower, spreader, and cornpicker (193939).

TOWNSLEY, SIDNEY J., New Haven, Conn.: Type Stomatopod from Hilo, T. H. (194242).

TRAPIDO, Dr. HAROLD, Panamá, Panamá: 6 heads of masked ducks (192235). (See also Gorgas Memorial Laboratory.)

TRAUB, Col. ROBERT, Washington, D. C.: 2 fleas, types, from southwestern

United States (192019); holotype and 2 paratypes of fleas (193309); 22 pseudoscorpions from United States (193761). (See also Department of Defense, *Department of the Army, Army Medical Service Graduate School.*)

TREASURY DEPARTMENT, Washington, D. C.—*Bureau of the Mint*: Assay Commission Medals, two each for 1949, 1950, 1951, and 1952 (193802); 544 coins and 110 amulets of Korea, A. D. 100 to the nineteenth century (194220); 2 sets United States coinage from Philadelphia, Denver, and San Francisco Mints and 2 sets proof coins from Philadelphia Mint, all for 1951 in the denominations of halves, quarters, dimes, nickels, cents (194234, 194235). *U. S. Secret Service*: 2 Grant commemorative half dollars, 1922, with spurious stars in obverse fields (194382, loan).

TRUMAN, President HARRY S., Washington, D. C.: Piece of rock from Corregidor, Philippine Islands (191548, loan).

TULANE UNIVERSITY, New Orleans, La.: (Through Dr. George H. Penn.) 3 type crayfishes (194062, gift-exchange).

TWEEDIE, Dr. M. W. F., Singapore, S. S.: 8 brackish water mollusks from well borings in Singapore (193837). (See also Raffles Museum and Library.)

UCHIO, Dr. TAKAYASU. (See University of Tokyo, and Institute of Petroleum Geology.)

UNITED NATIONS, FOOD AND AGRICULTURE ORGANIZATION OF THE, Washington, D. C.: 50 plants collected in Surinam by Dr. A. T. Semple (191967); (through Dr. Shu-Yen Lin) 7 shrimps collected in fish ponds, Port au Prince, Haiti (192053).

UNITED NATIONS POSTAL ADMINISTRATION, United Nations, N. Y.: (Through Bertil A. Renborg) First day cover with single copies of 6 United Nations stamps (192849); 2 complete sets of 1st U. N. postage stamps with tabs; first day cover franked with U. N. airmail stamps (193455).

UNIVERSIDAD DE CONCEPCIÓN, Concepción, Chile: 36 grasses from Chile (191486).

UNIVERSIDAD NACIONAL DE TUCUMÁN, Tucumán, Argentina: 596 plants from Argentina, southern Brazil, and Paraguay (192284, exchange); 515 plants from Patagonia (194618, gift-exchange).

UNIVERSITETETS BOTANISKE MUSEUM, Copenhagen, Denmark: 342 West Indian plants (191380, exchange).

UPPSALA UNIVERSITETS INSTITUTION FOR SYSTEMATISK BOTANIK, Uppsala, Sweden: 144 plants of Sweden and Regnell collections in Brazil (193737, exchange).

URIBE URIBE, Dr. LORENZO, Bogotá, Colombia: 49 plants from Colombia (193155).

UTAH, UNIVERSITY OF, Salt Lake City, Utah: (Through Dr. S. Flowers) 5 ferns from Utah (193963).

UTAH STATE AGRICULTURAL COLLEGE, Logan, Utah: (Through Dr. George F. Knowlton) 11 paratypes of miscellaneous flies and 2 type slides of aphids from Utah (192556); 4 flies (192789).

VAIDEN, M. G., Rosedale, Miss.: 14 grackles, 1 shrike, 1 cowbird, and 1 English sparrow (191556, 193688).

VAIL, S. P., Atlanta, Ga.: 6 beetles (191459).

VAN BREE, P. J. H. (See Zoologisch Museum.)

VAN CLEAVE, Dr. H. J., Urbana, Ill.: 5 new helminths from Oklahoma (193876).

VANDERBILT UNIVERSITY, Nashville, Tenn.: 21 greenhouse plants (191269).

VAN DER VECHT, Dr. J., Naarden, Netherlands: 35 bees from the Orient (194900).

VANEGAS P., AUGUSTIN. (See Oficina de Control de Especies Postales y Filatelia.)

VAN ELLS, M. E., Ann Arbor, Mich.: 1 alga collected in Michigan (193015).

VAN EMDEN, Dr. F., London, England: 3 weevil larvae and a fire-fly from Europe (194877). (See also British Government, *British Museum (Natural History)*, and *Commonwealth Institute of Entomology*.)

VAN FLEET, STEPHEN C., Washington, D. C.: Radio, phonograph, lighting and projection historical materials (193300); keyed Hungarian tárogató, C clarinet and an 8-key hautbois, made in Paris, France (193820).

VARGAS, Dr. LUIS. (See Instituto de Salubridad y Enfermedades Tropicales.)

VATIKIOTIS, SOZON, Tarpon Springs, Fla.: 264 marine mollusks, 8 fishes, approximately 127 marine invertebrates, and 2 echinoderms from Red Sea (188826); 3 marine mollusks from Greece and 3 from Gulf of Mexico (192505, 194339).

VAZQUEZ, ALBERTO, Arlington, Va.: 20 fresh-water mollusks from Minnesota (192188).

VERGANI, Dr. FRANCO. (See Instituto de Investigaciones Veterinarias.)

VERHOEFF, Dr. P. M. F., den Dolder, Netherlands: 164 European wasps (193555, exchange).

VERRILL, A. HYATT, Lake Worth, Fla.: Cultivated plant (193161); mollusk from Dominica, B. W. I. (194832).

VIRGINIA, UNIVERSITY OF, Charlottesville, Va.: 28 cultivated plants (193574).

VIRGINIA FISHERIES LABORATORY, Gloucester Point, Va.: (Through Dr. Jay D. Andrews) 16 Holothurians from Gloucester Point (194405).

VISSCHER, MRS. PAUL, Cleveland, Ohio: Approximately 10,979 barnacles, miscellaneous invertebrates, echinoderms, 2 insects, 150 mollusks, snakes, 10 scorpions; 163 lantern slides; 821 photographs and 2 rolls of film; card files and reports; about 200 reprints on barnacles (192694).

VOCKEROTH, J. R., Ottawa, Ontario: 12 midges from northern Canada (192557).

VOGEL, MORTON, Washington, D. C.: 67 sawflies and parasitic wasps from India and South America (192328).

VOIGT, EHRRARD, Hamburg, Germany: 60 Upper Cretaceous bryozoans from Kunrade, Netherlands (193302).

VOKES, DR. HAROLD E., Baltimore, Md.: Holotype of new species of pelecypod from the Miocene of México (191632); 30 fresh-water mollusks from northern Ontario, Canada (194109). (See also Mrs. R. Lee Collins.)

Voss, JACK, Bethesda, Md.: Skink from Sherman Island in Potomac River, collected by James Peters, Jr. (194722).

WAIKIKI AQUARIUM, Honolulu, T. H.: (Through Spencer Tinker) 2 fishes from Oahu Island (187055).

WALCOTT FUND, Smithsonian Institution: 5,000 invertebrate fossils from Permian rocks, Glass Mountains, West Texas, and 3,000 invertebrate fossils from New Mexico, Oklahoma, Missouri and Illinois collected by G. Arthur Cooper, A. L. Bowsher and W. T. Allen, 1951 (191737); 31 fossil fishes and reptiles from the upper Jurassic, Guacamaya and Hoyo de San Antonio, Pinar del Rio Province, Cuba (191750); about 270 vertebrate fossils including lower Eocene material from vicinity of Big Piney and Baggs, Wyo.; Paleocene from Almy beds near LaBarge, Wyo.; and lower Oligocene from Cameron Springs, near the Beaver Divide in southern part of the Wind River Basin; and collections of fossil and recent invertebrates, 12 mollusks from Wyoming, all collected by Dr. C. L. Gazin during summer 1951 (192002); approximately 500 Middle Ordovician invertebrate fossils from Alabama, Georgia, Tennessee, and Virginia, collected by Dr. G. Arthur Cooper, 1951 (192555); 7 bags foraminiferal samples and 7 boxes of mollusks and corals, approximately 500 specimens, from St. Marys and Yorktown formations along the James and Rappahannock Rivers, Va., collected by Drs. David Nicol and Alfred R. Loeblich, Jr. (192778); 800 Mississippian and Pennsylvanian invertebrates from Pennsyl-

vania and Ohio collected by A. L. Bowsher and W. T. Allen (194326), 250 Ordovician invertebrate fossils from Virginia collected by Dr. G. Arthur Cooper, 1952 (194848). *In cooperation with the U. S. Geological Survey*: 850 fossil crinoids collected by A. L. Bowsher and Edwin Kirk from Mississippian rocks, northern Alabama and Central Tennessee (193100, gift-transfer).

WALKER, Dr. E. H., Washington, D. C.: 50 cryptogams (193344); 50 mosses from Japan (194097).

WALLACE, MAURICE H., Muskogee, Okla.: 24 Jurassic brachiopods from Kenya, Africa (192596).

WALLACE, Dr. S. Lee. (See Gulf Coast Research Laboratory.)

WALLEN, Prof. I. E., Stillwater, Okla.: 38 land and fresh-water mollusks from Oklahoma (192256). (See also Oklahoma Agricultural and Mechanical College.)

WALTER, MABLE R., Washington, D. C.: An 1898 quarter Anna of Muscat and Oman (191633).

WALTER, WALDEMAR M., Durham, N. C.: 40 fresh-water and marine mollusks, and 3 barnacles from North Carolina (193231).

WARD, RONALD A., Chicago, Ill.: Holotype of louse from Madagascar (194304).

WARMKE, Dr. G. L. (See University of Puerto Rico.)

WARREN, LLOYD O., Fayetteville, Ark.: 60 Chrysomelid beetles, 9 species, from New Caledonia (191420).

WASHINGTON, UNIVERSITY OF, Seattle, Wash.: 3 plants from México (191384); (through John W. Slipp) 2 crabs (191235); (through Arthur D. Weland and Dayton L. Alverson) 1 fish taken 40 miles off coast of Washington (192689, exchange).

WASHINGTON, STATE COLLEGE OF, Pullman, Wash.: 456 plants mostly collected in Washington by A. Cronquist (191628, exchange); 1 grass from Idaho (192346).

WATKINS, J. E., Collection of clippings and other material; 11 photographs of railroad subjects (194915, found in the Museum).

WAYNE UNIVERSITY, Detroit, Mich.: 232 grasses from western national parks collected by Mr. and Mrs. H. E. Bailey (194007).

WEBER, JAY A., Miami, Fla.: 350 fresh- and brackish-water mollusks from Florida and Jamaica (191783, gift-exchange); approximately 35 amnicolids from Big Pine Key, Fla. (193363).

WEBER, Dr. NEAL A., North Gate, Baghdad, Iraq: 2 bats, 1 hedgehog, 3 fishes, insects, 40 ticks, 1 isopod, and 2 crabs from Iraq (191719).

WEBER, WALTER A., Vienna, Va.: Emperor goose and king eider duck (191376); isopod collected in Chesapeake Bay, Md., near Prince Frederick (192055); 1 kingsnake from Fairfax (192146).

WEEMS, HOWARD V., Columbus, Ohio: 28 flies, mostly from Florida (194566).

WEINSTEIN, ABRAHAM, Washington, D. C.: Eighteenth century copper coin from Southern India (193749).

WEISGERBER, VERIL DOMUS, Philadelphia, Pa.: Post card with reproduction of Chas. H. Weisgerber's painting of "The Birth of our Nation's Flag," used for 3-cent U. S. Betsy Ross stamp, with 3-cent stamp and first day cancellation (193063).

WEISSAUER, RUDOLF, Philadelphia, Pa.: 27 linoleum cuts for special exhibition (193350, loan).

WELANDER, ARTHUR D. (See University of Washington.)

WELLER, Dr. J. MARVIN. (See Chicago Natural History Museum.)

WENZEL, R. L. (See Chicago Natural History Museum.)

WESLEYAN UNIVERSITY, Middletown, Conn.: 39 bird skins, 11 bird skeletons, and 2 mammal skeletons (193966, exchange); (through Dr. H. B. Goodrich) 1,400 fishes, approximately 2,141 marine invertebrates, 300 mollusks, reptiles and amphibia from Wesleyan University Museum collections (192560, exchange).

WEST CHESTER STATE TEACHERS COLLEGE, Gradyville, Pa.: (Through Paul W. Schwalbe) Type specimen of Grace's warbler (190493, exchange).

WEST VIRGINIA UNIVERSITY, Morgantown, W. Va.: 6 grasses from West Virginia (191675); 48 plants from southeastern United States (192772, exchange); plant from Alabama (192966).

WETMORE, Dr. A., Washington, D. C.: 28 skins and 3 skeletons of birds from Michigan (191472); 5 mammals and 5 birds from Shenandoah National Park, Virginia (194925).

WHITE, JOHN A., Lawrence, Kans.: 2 slides, about 300 specimens, of Foraminifera from Recent of Ceylon (191395).

WHITE, Dr. ORLAND E., Boyce, Va.: 349 plants from Burma, India, and United States (191487, 193157).

WHITEHOUSE, EULA. (See Southern Methodist University.)

WHITE HOUSE, THE, Washington, D. C.: Large round table of narra wood presented to President Franklin D. Roosevelt in 1934 by Gen. Emilio Aguinaldo, Kawit, Cavite, P. I. (194912).

WHITESSELL, WOOD, New Orleans, La.: 59 pictorial prints for special exhibition September 1951 (192004, loan); 15

prints by donor: "Louisiana Live Oaks," "Indianapolis Camera Club," "Ladies from St. Anna's," "Evening in Old New Orleans," "George 'Pop' Hart—Artist," "So What," "John R. Satterlee J. P.," "Juanita Gonzalez—Sculptress," "Innommie Whitesell," "Anxious Moment," "Margaret has the Floor," "Demonstration in Angle Shots," "Country School Board," "Artist and Craftsman at Work," and "Skeptic Patient" (192493).

WICHER, Dr. C. A., Peine, Germany: 41 Foraminifera from Jurassic of Germany (194478, exchange).

WIGGINS, Dr. IRA L. (See Department of Defense, *Department of the Navy, Office of Naval Research.*)

WILCOX, LEROY, Long Island, N. Y.: 14 fresh-water mollusks from Long Island (192667).

WILDUNG, FRANK H., Washington, D. C.: 138 woodworking tools for special exhibition during November, 1951 (192704, loan).

WILLE, F. G., Clinton, N. J.: Imprinted 1-cent postal card mailed December 31, 1951, last day of 1-cent rate (193068).

WILLEMSE, Dr. C., Eygelshoven Z. L., Netherlands: 81 Indo Malayan grasshoppers (193498, exchange).

WILLIAMS, Dr. HERMANN W., Washington, D. C.: Pair of U. S. Army officer's epaulettes, ca. 1804-1808; pair of U. S. Infantry officer's epaulettes, ca. 1832-1840 (193165, exchange).

WILLIAMS, Dr. JAMES STEELE. (See Department of the Interior, *Geological Survey.*)

WILLIAMS, RALPH B., Juneau, Alaska: Nematomorph worm from Juneau (191350).

WILLINK, Dr. A., Tucumán, Argentina: 2 wasps from Argentina (192331).

WILSON, ARDEN, Harrisville, W. Va.: Hand-operated winnowing mill (192872).

WILSON, Dr. JOHN N. (See Federal Security Agency, *Public Health Service.*)

WILSON, MRS. MILDRED. (See Federal Security Agency, *Public Health Service.*)

WISCONSIN, UNIVERSITY OF, Madison, Wis.: 20 plants of North America (192706, exchange); (through Dr. P. R. Morrison) 9 mammal skeletons from Alaska (191247).

WITHERS, G. W., Atlanta, Ga.: Garnet crystal from Paulding County, 5 miles southwest of Hiram, Ga. (192178).

WITT, WILLIAM, Arlington, Va.: 5 salamanders from Fairfax County, Va., and 1 snake from near Waynesville, Mo. (194521).

WOKE, Dr. PAUL. (See Federal Security Agency, *Public Health Service.*)

WOLFE, Col. L. R., Kerrville, Tex.: 8 hawks (193153); 6 hawks from México and 1 from Manchuria (194868).

WOLLENSAK OPTICAL COMPANY, Rochester, N. Y.: (Through Norman E. Kuegler) 13 specimens of photographic equipment (194767).

WOMEN'S PHILATELIC SOCIETY, New York, N. Y.: Souvenir label marking 300th meeting of Women's Philatelic Society of New York (192417).

WOOD, Mrs. ALBERT HARRIS, Orlando, Fla.: 5 pairs of Indian moccasins collected from Indians by the late Charles H. Harris, while member of Troop H, 1st U. S. Cavalry, Fort Assiniboine, near present Havre, Montana, in 1884-1888 (191867).

WOODLING, HERBERT B., Akron, Ohio: 40 prints for exhibition during April, 1952 (194105, loan).

WOODRING, Dr. WENDELL P. (See Dr. Louis Kehrler.)

WOODS, LOREN P. (See Chicago Natural History Museum.)

WOOLSEY, HEATHCOTE M., Kent, Conn.: 2 marine mollusks (191130); approximately 150 marine mollusks from Jamaica and Grenada, B. W. I. (194777).

WORRELL, W. S., Florence, S. C.: 2 plants from South Carolina (193093).

WRIGHT, LEON M., Enterprise, Fla.: Approximately 75 fresh-water mollusks from Florida (192148).

WRIGHT, Dr. STILLMAN, Washington, D. C.: 16 lots of rotifers, 9 lots of cladocerans, ostracods, and conchostracans, 174 lots of copepods, and 334 lots of miscellaneous plankton from South America (190216).

WYGODZINSKY, Dr. PETR, Tucumán, Argentina: 116 bugs from South America (193114).

WYOMING, UNIVERSITY OF, Laramie, Wyo.: 47 plants from Wyoming (193740, exchange).

YAGI, Dr. KENZO, Tohoku, Japan: Hypersthene dacite from the Usu Volcano at Hokkaido, Japan (191393).

YALE UNIVERSITY, New Haven, Conn.—*Bingham Oceanographic Laboratory*: (Through Daniel Merriman and James E. Morrow) 14 fishes from Pemba Island, Mkonai Harbor, British East Africa (193263, exchange). *Osborn Botanical Laboratory*: 2 plants collected

in Arabia by W. W. Thoms (192431). *Peabody Museum of Natural History*: (Through Dr. S. Dillon Ripley) Body of Asiatic honey guide (193735); 1 bird from Assam (194547).

YAO, Dr. Y. T., Nanking, China: 76 fresh-water and land shells from Chekiang Province, China (142269).

YASUMATSU, Dr. KEIZO. (See Kyushu University.)

YEDLIN, Leo Neal, Yalesville, Conn.: A monazite from Standpipe Hill, Topsham, Maine (194858).

YEN, Dr. T. C. (See U. S. Department of the Interior, *Geological Survey*.)

YOCHELSON, ELLIS, Washington, D. C.: 2 sponges from Devonian New Scotland formation, New York (191392).

YOGORE, MARIANO G., Jr. (See University of the Philippines.)

YOUNG, CHARLES F. and STAUFFER, GEORGE P., Fort Sam Houston, Tex.: Maxilla with 5 teeth of tapir from inside Goat Cave, Florida Caverns State Park, Marianna, Fla. (192720).

YOUNG, Dr. DAVID, Washington, D. C.: Approximately 6,500 leafhoppers from eastern United States (194884).

YOUNG, Dr. FRANK N., Bloomington, Ind.: 23 isopods (192163).

ZEIMER, Maj. HOWARD A., Pine Bluff, Ark.: 217 assorted airline and military aviation buttons (191688).

ZETEK, JAMES, Balboa, C. Z.: Fish from fresh-water stream on Pacific side of Panamá (191356).

ZIMMERMANN, E. C. (See Hawaiian Sugar Planters' Association.)

ZODAC, PETER, Peekskill, N. Y.: Specimens of quartz, variety jasper, from New England, Hettinger County, N. Dak. (194789).

ZOOLOGICAL MUSEUM, Copenhagen, Denmark: (Through Dr. Borge Petersen) 50 parasitic wasps (193959, exchange).

ZOOLOGISCH MUSEUM, Amsterdam, Netherlands: (Through Dr. J. J. Hoedeman) 11 fishes from the West Indies (193782, exchange); (through P. J. H. van Bree) 3 lizards and 3 snakes from the Netherlands (193796, exchange).

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FROM VOLUME 99 OF THE PROCEEDINGS

Title page, table of contents, list of illustrations, and index. Pp. i-viii, 541-573. February 7, 1952.

FROM VOLUME 101 OF THE PROCEEDINGS

No. 3287. New finds of Pleistocene jaguar skeletons from Tennessee caves. By Edward McCrady, H. T. Kirby-Smith, and Harvey Templeton. Pp. 497-511, figs. 97-102, pl. 16. October 16, 1951.

No. 3288. An annotated checklist of the mosquitoes of the subgenus *Finlaya*, genus *Aedes*. By Kenneth L. Knight and Elizabeth N. Marks. Pp. 513-574. February 12, 1952.

No. 3289. A new subspecies of marine isopod from Texas. By Robert J. Menzies. Pp. 575-579, figs. 103-104. August 3, 1951.

No. 3290. Studies of certain apogonid fishes from the Indo-Pacific, with descriptions of three new species. By Ernest A. Lachner. Pp. 581-610, fig. 105, pls. 17-19. December 18, 1951.

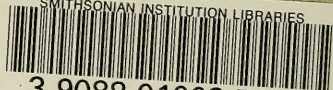
FROM VOLUME 102 OF THE PROCEEDINGS

No. 3291. Contributions to the morphology and taxonomy of the Branchiopoda Notostraca, with special reference to the North American species. By Folke Linder. Pp. 1-69, figs. 1-31, pls. 1-7. June 27, 1952.

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